KONICA MINOLTA

GUIDE BOOK

World's First body integral CCD-Shift
Anti-Shake Technology

KONICA MINOLTA

AF ZOOM 17 - 35 mm 1:2.8 (32) - 4 D

DYNAX
7D

AS
ANTI-SHAKE

AS
ANTI-SHAKE

The essentials of imaging

Dynax 7D sales features

Konica Minolta Dynax 7D represents a major revolution in Digital SLR photography. By combining the ideal shape of the Dynax 7 film SLR with modern digital technology the Dynax 7D will take the photographer to a previously unmatched level of creative expression.

1 Anti-Shake incorporated within the body

The exclusive Konica Minolta Anti-Shake system housed within the body shifts the CCD to compensate for user camera shake. Providing between 2-3 stops additional assistance the photographer can use telephoto lenses, or take pictures in low light with ease.

2 Large 2.5" type LCD display with Navigation Display

Konica Minolta provides the Worlds First Digital SLR to incorporate a large 2.5" type LCD display. Equipped with 207, 000 pixels the user can immediately see the clarity of their images. Navigation display relays all camera setting information in large easy to read text.

3 6.1 Million effective pixels on an APS-C sized CCD with CxProcess III

Outstanding images will be captured using 6.1 Million Pixels and High Performance CxProcess III.

4 Dynax 7D intuitive operation and handling from SLR platform

Precise Autofocus systems quickly focus on the subject, whilst the accurate Auto Exposure metering system calculates the exposure to record the scene.

5 Creative control with precise handling

Equipped with a 9 point AF sensors and a High Quality, large, bright viewfinder.
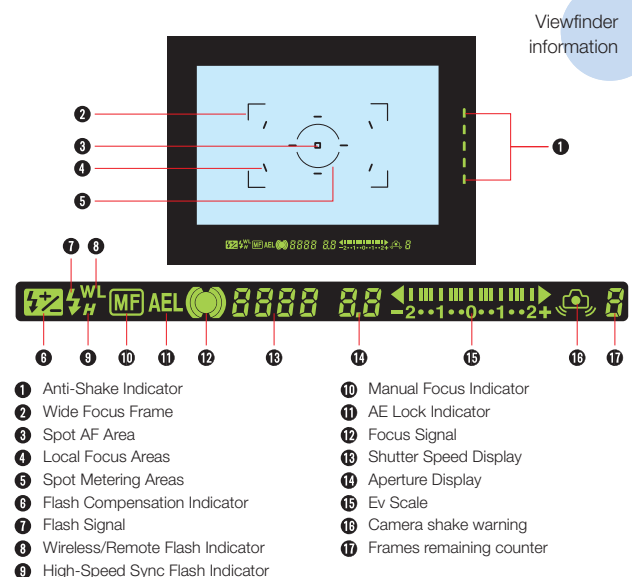
6 System Accessories complement the Dynax 7D

Building upon the existing wide range of Dynax lenses, flashguns and other accessories the Dynax 7D is at the centre of a specialised range of versatile products.
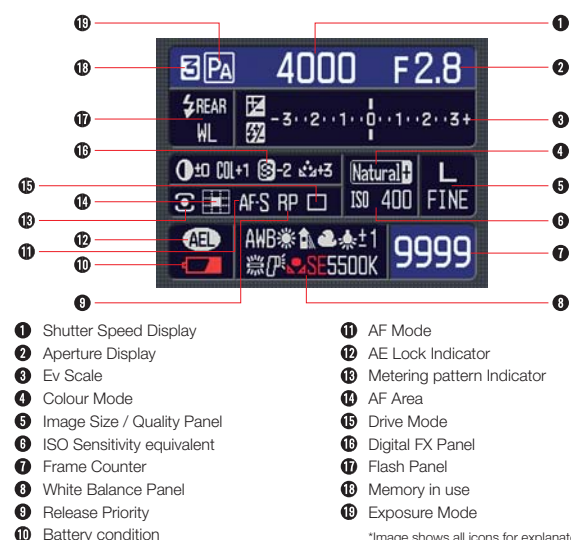
Image Capture

Viewfinder information

Within the sharp and bright viewfinder essential information is clearly shown. 9 Point AF sensors illuminate within the Wide Area AF brackets to confirm focus on the selected sensors position.

Viewfinder information

1 Anti-Shake Indicator
2 Wide Focus Frame
3 Spot AF Area
4 Local Focus Areas
5 Spot Metering Areas
6 Flash Compensation Indicator
7 Flash Signal
8 Wireless/Remote Flash Indicator
9 High-Speed Sync Flash Indicator
10 Manual Focus Indicator
11 AE Lock Indicator
12 Focus Signal
13 Shutter Speed Display
14 Aperture Display
15 Ev Scale
16 Camera shake warning
17 Frames remaining counter

LCD Monitor

Navigation Display   P.8

Using the 2.5" type LCD screen the Dynax 7D shows the settings of the camera in easy to read sections.

1 Shutter Speed Display
2 Aperture Display
3 Ev Scale
4 Colour Mode
5 Image Size / Quality Panel
6 ISO Sensitivity equivalent
7 Frame Counter
8 White Balance Panel
9 Release Priority
10 Battery condition
11 AF Mode
12 AE Lock Indicator
13 Metering pattern Indicator
14 AF Area
15 Drive Mode
16 Digital FX Panel
17 Flash Panel
18 Memory in use
19 Exposure Mode

*Image shows all icons for explanatory purposes only

6.1 Million Pixel, APS-C sized CCD

Equipped with a 23.5x15.7mm APS-C sized 6.1 Million Pixel CCD. The Dynax 7D boasts outstanding picture quality.

▶ ▶ ▶ P.10

CCD

Flash (Manual Lift)

Controllable AF settings

Four positions allow the user to pre-select the correct mode of Autofocus calculation.

▶ ▶ ▶ P.8

Focus Mode selector

Four key selector

AF/MF selector

Viewfinder

PC Sync socket

Power switch

USB/ AV Output Terminal

DC Socket (requires AC-11 MPA)

Remote Release socket (requires RC-1000 S or L)

Anti-Shake switch

ISO Sensitivity button

Anti-Shake

Thumb switch to activate CCD-Shift Anti-Shake system.

▶ ▶ ▶ P.6

Metering mode switch and AEL button

White Balance selector

Metering control

Metering patterns ensure accurate Auto Exposure.

▶ ▶ ▶ P.14

Exposure compensation dial 0.5 and 0.3 Ev scale

Exposure mode dial

White Balance Control

White balance can be calculated automatically, from preset options, manually, or directly input.

▶ ▶ ▶ P.16

3

Review

Straightforward menu navigation

Menus are clear with large text to easily select the function required.
Using a large screen the text is larger, helping users with poor eyesight.

Menu button

Large 2.5" type LCD monitor

Using a 2.5" TFT monitor images are bigger and clearer.
Data is larger and easier to read.

2.5" type LCD TFT Monitor

Cross/Enter Button

←→ Frame to Frame selection. ↑ Provides data display with Histogram and Flashing Highlights and Lowlights. ↓ Rotates image orientation.
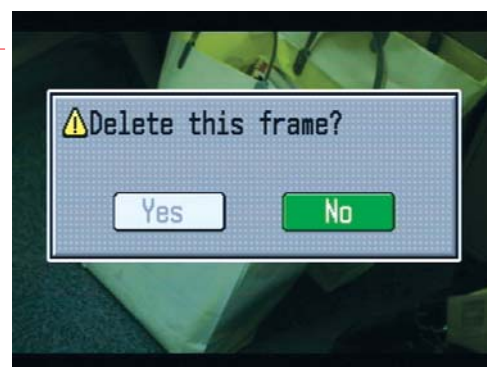
Card Door

Dynax 7D is compatible with CompactFlash type I and II cards. USB 2.0 High Speed connection and AV connection is provided via a second door so the port can be used with the CF door closed.

Review button

Magnification button
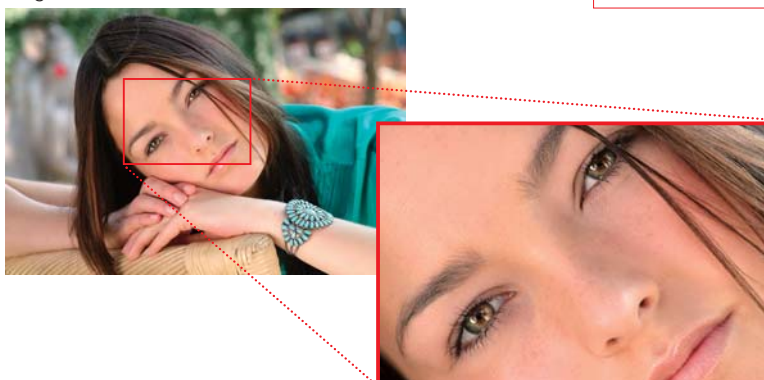
Review magnification provides up to 4.7x enlargement. Press twice to return to normal view.

Delete

Easy to delete unwanted images, press trashcan button and confirm delete is required.

Detailed information for more efficient use of Dynax 7D

1.5x Focal Factor

Dynax 7D uses a CCD smaller than the area of a conventional 35mm film exposure area. Resulting in a 50% increase in apparent focal length of any lens attached. All lenses attached will be magnified by 1.5x.

Dynax 7D APS-C sized CCD area

35mm Exposure area

ISO Equivalent Settings

Manual 100-1600 ISO equivalent sensitivity settings are available as standard. Dynax 7D also provides Auto ISO control to allow the camera to select the best ISO equivalent for the conditions. Via the Custom menu users can select up to 3200 ISO equivalent, image noise will be significantly higher with this setting.
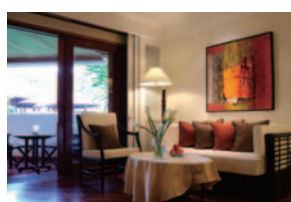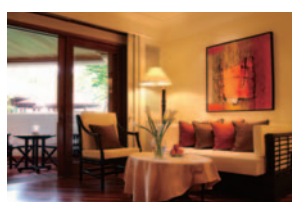
ISO100

ISO1600

White Balance

Total control of White Balance settings is provided. AWB; Auto White Balance, PWB; Preset White Balance, Custom White Balance and Manual Calibration are selectable

Auto White Balance

Manual Daylight setting

File Format and File Size

Images can be captured in various combinations of resolution and compression. RAW compression and RAW with JPEG can be selected for ultimate quality. Further JPEG compression factors can also be selected. Image Quality can be selected from three resolutions.

File Format	
RAW	
RAW+JPEG	
Extra Fine (JPEG)	RAW Images can only be set to Large image size.
Fine (JPEG)	
Standard (JPEG)	

Image size		
	L: 3008x2000	6 Million Pixels
	M: 2256x1496	3 Million Pixels
	S: 1504x1000	1.5 Million Pixels

Digital FX Adjustment

In camera image-processing adjustment can be selected before capture. Allowing users to manually adjust contrast, saturation, edge sharpness and hue.

No Sharpening

With Sharpening

Colorspace

Accurate control of colour ensures images are rendered faithfully. Dynax 7D provides three colorspace modes. Natural Color employs the sRGB colorspace to record images faithfully to the original. Natural+ also uses sRGB colorspace whilst increasing contrast. For colour managed printing Adobe RGB is also included, this colorspace captures a wider gamut than sRGB.

Comparison model for colorspace.

Visible spectrum

Adobe RGB

sRGB
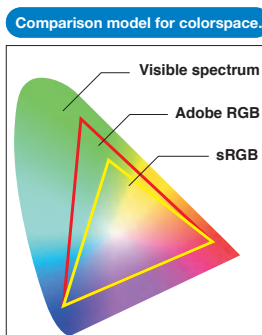
World's First Body Integral Anti-Shake

AS
ANTI-SHAKE

## Konica Minolta proprietary Anti-Shake technology

Camera shake will make even the best images unusable. Konica Minolta has developed Anti-Shake, a CCD-Shift mechanism to provide up to 2-3 stops assistance. Low frequency body movement at around 1-2Hz and high frequency handshake at 10Hz can both be compensated for. By incorporating this feature within the body all lenses can be used[*1].
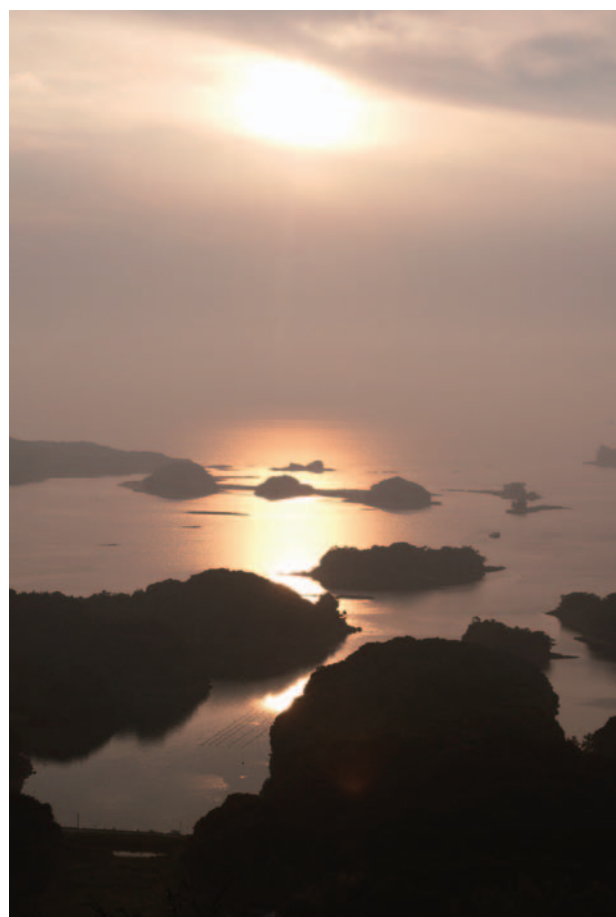
CCD-Shift

Anti-Shake assembly
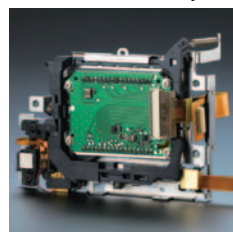
Camera movement is detected within the body by two gyroscopic sensors. This information is calculated by a dedicated CPU and information is passed quickly to the SIDM* to compensate.

* SIDM: Smooth Impact Drive Mechanism

DATA: AF Lens 17-35f3.5G, Aperture priority, f8, -0.5Ev, ISO 100, Auto White Balance, RAW

Anti-Shake Indicator

Whilst composing a picture the display of up to 5 green LED's will inform the user how much shake is being detected. The user has the benefit of knowing shake is being detected and may be able to reduce their own movement.

High amount of shake detected

Low amount of shake detected
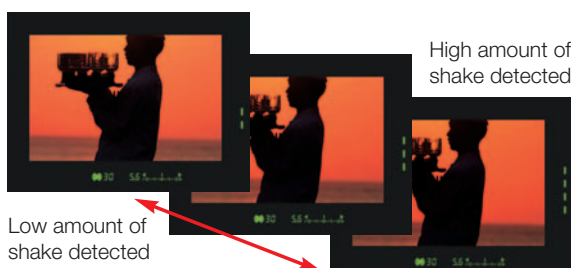
The difference between shake and out of focus

Modern AF systems are accurate and out of focus images are rare. Most unusable images show camera shake. Out of focus images are diffused with no apparent sharpness. Images with camera shake show edge sharpness but exhibit more than one recording of the subject details..

Shake

Out of focus

All Dynax lenses can be used with Anti-Shake*¹

Anti-Shake is housed within the camera body; compensation is applied by moving the CCD in the opposite direction to the direction of body movement. This cancels the shake. The benefit of this is that all lenses can be used; the lens you already have can be used. Whether using a wide angle, standard, macro or telephoto zoom lens they can all be used with Anti-Shake. Optical quality is not reduced; new heavier and more expensive lenses are not required.
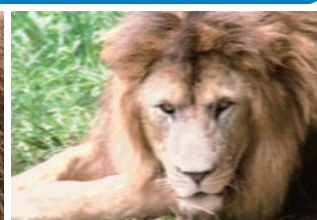
*¹ AF Macro Zoom Lens 3x-1x f1.7-2.8 Anti-Shake must be turned off

Telephoto or Zoom

Anti-Shake off

AF Zoom Lens 70-200f2.8G (D) SSM +AF 2x Teleconvertor (D)

AF Zoom Lens 70-200f2.8G (D) SSM +AF 2x Teleconvertor (D). Sharp image will be captured without camera shake.

Anti-Shake on

Night Portrait

Anti-Shake on

AF Lens 28-75mm f2.8 (D)

Night Portrait with New 28-75mm f2.8 (D)

*If Shutter speed is extended the effectiveness of Anti-Shake is reduced. Subject movement cannot be corrected.

Anti-Shake off

Macro

Anti-Shake on

AF Macro Lens 50mm f2.8 (D)

With a macro lens camera shake is easily corrected by Anti-Shake. You can take images of small objects without a tripod.

Anti-Shake off

Navigation Display using 2.5" type LCD

Important settings and conditions are shown

The Navigation display from the original Dynax 7 has evolved. Using the rear LCD all necessary settings and conditions will be shown with easy to read large text. Users can understand all settings at a glance. As seen on previous Dynax and DiMAGE cameras there are two proximity sensors below the viewfinder. These are used on the Dynax 7D to automatically dim the Navigation Display to avoid distracting the users peripheral vision when looking through the viewfinder. The Navigation Display will reorientate itself to match cameras orientation as landscape or portrait composition is made.

Vertical Form   Horizontal Form   Primary Data Enlarged

Large LCD Monitor

One of the major benefits of digital photography is the ability to review images immediately. The Dynax 7D is the first digital SLR to be equipped with a 2.5" type LCD. Using 207,000 pixels the image is larger and clearer aiding examination of minor details. This TFT screen offers faithful colour reproduction and a wider viewing angle to avoid darkening of the image when viewed from acute angles.


4.7x Review Magnification

To check precise focus of any part of the captured scene press the magnify button. The chosen area to enlarge can be selected, as well as the amount of magnification applied. If using a local focus area the magnification will automatically zoom to that section.
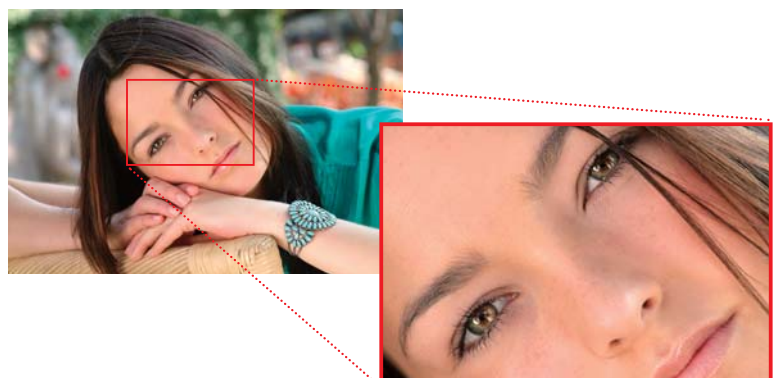
Replay image and Histogram

As the Dynax 7D is equipped with a large screen the data can be shown larger. Image information such as shutter speed, aperture, ISO setting and other important information can be read. The Histogram is larger than on other Digital SLR's to aid reading of the graph.
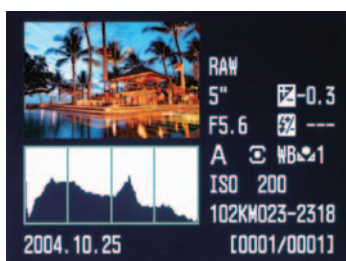
Maximum 16 frame index

Users can select between 4, 9 and 16 images to be shown on screen. With a larger screen it is possible to identify differences between images, even with a many as 16 being displayed.

Tab Browse

The Dynax 7D can store images in folders titled in standard or date form. The user can then select tab browse to quickly pass between each folder in the CF card. Date form is useful when taking large amounts of pictures on successive days, for example on holiday.

Alert for Highlights and Shadow

When reviewing images the histogram and other data can be shown by pressing the ↑ of the four-way controller. The image will alternately flash and areas where the luminance limit of the exposure has been surpassed. Lost highlights and lost shadow data will flash alternately. No image detail will be recoverable in these areas.

Grey area shows the lost highlights. The histogram is shifted to the right-hand side.
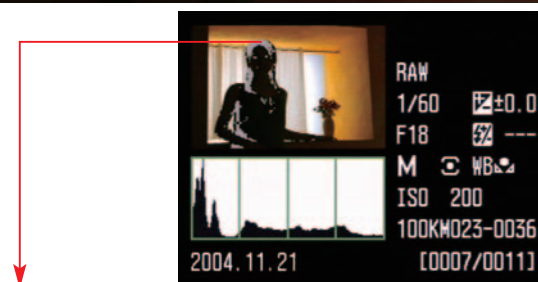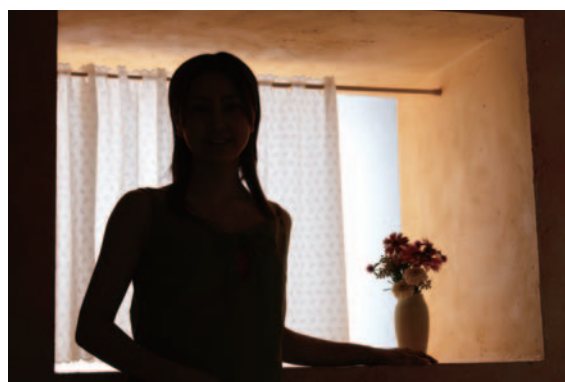
Grey area shows the lost shadow area, the histogram has been shifted to the left-hand side.

6.1 Million Pixel APS-C sized CCD with CxProcess III

Accurate graduation, high sensitivity and rich colours are possible with 6.1 Million Pixels

The CCD can be considered as the film of a traditional camera, or even the retina of the eye. Dynax 7D uses an APS-C sized CCD image sensor measuring 23.5x15.7mm, the size of the pixels is 7.8µm this is significantly larger than smaller CCD's with greater resolution. Larger pixels generate images with greater tonal graduation and lower noise. The 2:3 ratio of the CCD produces images ideal for printing and framing.

Wide Dynamic Range
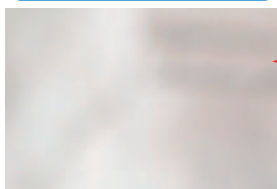
Larger CCD captures the scene with less noise and more tonal graduation
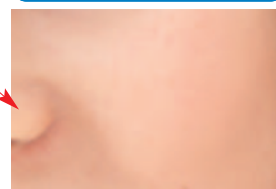
Fine Detail of Hair

Recording fine detail together within areas of highlight and shadow is possible.

Subtle Tonal Changes

The balanced accuracy across the image records the high gloss of lipstick

Colour of the Skin

When taking a portrait the colour of the subjects' skin is one of the most important aspects in the perception of accuracy. It must appear healthy and flatter the subject, whilst remaining faithful.

DATA: AF Lens 50mmf1.4 Manual Exposure mode, Shutter Speed, Aperture f4, Sensitivity ISO 200, White Balance Manual.

8 Million Pixel CCD of DiMAGE A2 compared with Dynax 7D

It might at first seem that DiMAGE A2 boasts 8 Million Pixels and as a result should produce better quality images. In reality the number of pixels and the final file size are only part of the story. The CCD of the DiMAGE A2 measures only 8.8x6.6mm, this is 1/6th of the area of the Dynax 7D. Images are captured in a less conventional 4:3 ratio and each pixel is significantly smaller. This leads to higher noise levels, restricted tonal graduation and if you look closely between the two images shown a greater depth of apparent sharpness, this can prove difficult to disguise when capturing portraits.
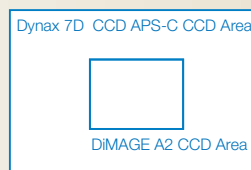
Dynax 7D CCD APS-C CCD Area

DiMAGE A2 CCD Area

Image captured on DiMAGE A2

CCD & ENGINE

4 Quality Modes

The Dynax 7D offers a choice of four quality modes. RAW retains the best quality, as each image is larger there will be fewer images for the same amount of capacity. RAW images require extended time to process each image individually. RAW and JPEG* can be recorded simultaneously to speed the image processing time. All other Quality Modes are JPEG format with varying amounts of compression.

Quality Modes

*When using RAW and JPEG capture the JPEG is restricted to Fine mode.

Quality Modes
RAW
RAW+JPEG
Extra Fine (JPEG)
Fine (JPEG)
Standard (JPEG)

RAW+JPEG produced two files. RAW provides the best quality for reproduction, whilst JPEG produces a file suitable for transfer to any PC with no special software required to view it.

How to choose the best image size

Maximise your memory capacity by capturing images at a resolution appropriate for the final purpose. Maximum resolution will require the greatest amount of memory space, the resulting images will give the best quality, suitable for printing or cropping. If making smaller prints or requiring a greater number of images set the Medium image size. If the images are only intended for the internet or e-mail then small resolution is available, these images are not suitable for printing.

Effective no of pixels

L: 3008x2000	6 Million Pixels
M: 2256x1496	3 Million Pixels
S: 1504x1000	1.5 Million Pixels

Number of Images

Image Type	Image Size	File Size Created	Number of images stored on a 256MB CF card
RAW		approx. 8.6MB	approx. 26 images
RAW+JPEG	L*	approx. 11.5MB	approx. 19 images
	M*	approx. 10.2MB	approx. 21 images
	S*	approx. 9.3MB	approx. 23 images
Extra Fine	L	approx. 5.9MB	approx. 41images
	M	approx. 3.3MB	approx. 72 images
	S	approx. 1.6MB	approx. 157 images
Fine	L	approx. 3.0MB	approx. 81 images
	M	approx. 1.7MB	approx. 141 images
	S	approx. 850KB	approx. 292 images
Standard	L	approx. 1.8MB	approx. 138 images
	M	approx. 1.0MB	approx. 235 images
	S	approx. 540KB	approx. 463 images

*JPEG resolution

Fast Processing Engines

The Dynax 7D carries four LSI processors to quickly process data and keep the camera operating at its optimum performance. Each designed to compute specific tasks whilst minimising power consumption.
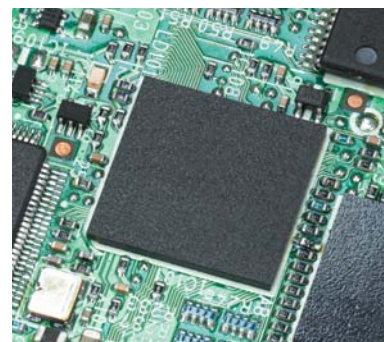
Konica Minolta proprietary Image Processing system CxProcess

There are four key image processing functions; reproduction of colour, tonal graduation, noise reduction and image sharpness. CxProcess III aims to achieve the best balance of all of these factors.

User Colorspace settings

Choose the most appropriate colorspace for your needs. Dynax 7D is equipped with Natural (sRGB) and Natural+ (sRGB) as well as the colour profile managed Adobe RGB.

Natural (sRGB)

Average natural colours recorded faithfully to the original scene in 24bit . sRGB is the same colorspace as a standard PC monitor.

Natural+ (sRGB)

Uses 24bit data to record colours in the same detail, with increased contrast.

Adobe RGB (ICC)

Adobe RGB colorspace contains a wider gamut rendering a greater tonal range. Ideal for photographers using a colour managed process ensuring the final result is accurate to the original capture. When printing Adobe RGB the greater colour range is evident in the red and green parts of an image.
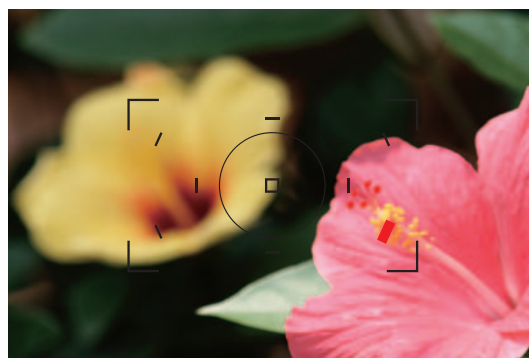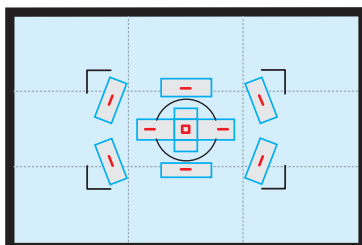
High Performance Rapid Autofocus

Centre Cross Hair 9-point, 8 Line AF system

The Dynax 7D uses 9-point AF sensors with centre cross hair sensors which is divided into 9 segments (forming the rule of thirds) with an 8 line, 9 point focusing zone. With this sensor, your focus area becomes exceptionally wider than conventional focus areas, providing greater framing flexibility when composing still subjects.

Local Focus Point, bottom right

Using the Focus Area Selector allows you to instantly shift into the local focus area to personally choose your intended focus point. Also, by pressing the centre AF button, the camera will switch over to the highly accurate Spot AF mode.

Local Focus Point, top left

Multi Dimensional Predictive AF Tracking

Fast computation of distance metering data and superior algorithms means that the Dynax 7D's multi dimensional predictive focus control is fast and accurate. Whether the subject is moving toward or away from the camera, across the field of view or in a random complex fashion, this function detects the subjects speed of movement and predicts the amount by which the subject will move before the image is captured.

Various AF modes

Choose the most appropriate focus mode for the subject type between AFS (Portrait), AFA (Normal), AFC (Sports) and MF (Manual Focus).

AF-S Single Shot AF	Focus is locked once you depress the shutter button. This mode is ideal for static subjects such as buildings and studio portraits.
AF-A Automatic AF	Automatic AF mode switches automatically between continuous AF (C) and single shot (S) depending upon the degree of subject movement detected.
AF-C Continuous AF	In continuous AF the camera focus continuously whist the shutter button is partway pressed. This mode is ideal for sporting events where you need to track a rapidly moving subject.
MF Manual Focus	MF mode lets you focus manually by turning the lens focusing ring of the lens. Even when set to MF the user can quickly select one shot AF by holding pressing the AF/MF button on the rear of the camera.

AF/MF Control Button can be changed immediately with a Dynax lens

Conveniently located on the rear of the body is a button marked AF/MF, placed for quick transition from Autofocus to Manual Focus. Pressed and held with the thumb it will detach the body mounted AF drive shaft from the lens connector to allow the user to manually adjust the manual focus. If in Manual Focus pressing and holding the AF/MF button, Autofocus will be returned, for one shot AF-S.

AF/MF button

Immediacy of change from AF/MF

With one button conveniently placed on the rear of the camera the user does not have to struggle to find the AF/MF switch on the lenses of other brands.

AF/MF usage example.

The top image was captured in AF mode, the focus position was located on the kangaroo in the foreground. The image was captured, without moving the camera or changing the focus position the photographer selected AF/MF. By turning the lens he was able to focus on the kangaroo behind and capture the image.

*Xi lenses, STF135mmf2.8 (T4.5) are unable to use this feature.

Easy Direct Manual Focus (DMF)

Even when AF systems are fast and precise there are occasions when manual adjustment is required. Especially when only a small amount of adjustment is required. For this purpose the Dynax 7D is equipped with DMF.

Direct Manual Focus can be used in AF-A mode.

❶ Portrait photography requires sharp focus on the subjects eye.

❷ If the subject moves by a small amount the image will be soft.

❸ Using DMF the user can change the focus manually.

How to set up DMF
Page 23 section 4

Clutch mechanism for DMF

A clutch mechanism is built into the camera body to provide direct switching from AF to MF. This allows direct manual focus with all Dynax lenses, rather than selected lenses as with other systems.

The difference between the use of AF/MF and DMF

AF/MF can be used at any time. DMF can only be changed after Autofocus has been completed. These purposes reflect the demands of the user.

Dynax 7D performance built from the Dynax 7 platform

Four exposure modes for control and creativity

Whatever the circumstances the Dynax 7D can be used to control the exposure accurately whilst allowing total flexibility. From dial positioned on the right hand side the user can select their preferred exposure mode. In Program mode you have program shift into PS or PA. Changing the front dial will change the shutter speed into PS. Altering the back dial will bias the aperture in PA. In Manual with AEL adjustment of the front dial will control the shutter speed. The aperture will be altered according to users selection of shutter speed to retain the same Ev.

P

A

S

M

P – Program
A – Aperture Priority
S – Shutter Priority
M – Manual Exposure

Memory Setting Function

Three users preferences positions are provided to allow personal selection, saving and recall of many modes. Using the button marked MSET most modes currently set can be saved for instant recall. This is especially useful when using a particular lens or subject matter.
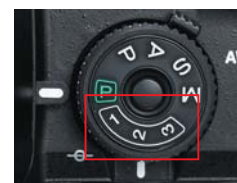
3 Metering modes for precise Auto Exposure

Using the same 14 segment metering pattern of past Dynax cameras the exposure is calculated accurately. Arranged in a honeycomb pattern, 13 individual cells cover most of the subject area. Balanced by the outer area this 14 segment pattern provides precise data to calculate the average exposure of a scene. Alternatively centre-weighted and spot metering are also available.

14 Segment
Honeycomb Pattern

14 Segment Honeycomb Pattern Metering	The cameras standard metering mode, appropriate for most photographic situations. By combining information from the subjects distance and position of the Autofocus system, this mode is less influenced by bright spots or backlighting.
Centre-Weighted	Measures the light values over the entire image area with emphasis given to the central region.
Spot	Uses the circular area within the viewfinder to calculate the exposure. Spot metering allows precise exposure measurements of a particular object without being influenced by extremely bright or dark areas within the scene.

Exposure compensation via easy dial operation

The dial positioned on the left side of the camera is exclusively for exposure compensation. The dial is large to ease operation. Compensation steps are marked in 0.3Ev and 0.5Ev amounts.

Silver lettering indicates 0.5Ev increments, whilst the orange marks provide 0.3Ev.

If capturing subjects that are predominantly bright the camera meter will try to average the scene to 18% grey. This will result in a dark image. Therefore + compensation is required. Conversely if photographing a dark subject – compensation is needed.

±0

+1.5

Flash compensation

Flash compensation will control the output of the internal flash, or a dedicated external flash. When using fill-in flash to increase the presence of the flash illumination within the exposure select + compensation. This has the benefit of increasing the brightness of the shadows. By placing the dial on the outside of the body it is easily accessible and can altered quickly. The Navigation Display will show how much compensation is in use.

-1.5

±0

Bright, Clear and Sharp Viewfinder

The viewfinder is one of the most important aspects of any SLR. For composition, and focus accuracy the quality of the viewfinder has to be high. Konica Minolta ensures this by using a Pentaprism, rather than Pentamirror offering 95% coverage, a 0.9x magnification. Using a Spherical Acute Matte screen the user is able to precisely gauge the sharpness of the image. Dioptre adjustment is also provided.

Durable Magnesium Alloy body

Magnesium Alloy has been incorporated for the cameras front and base panel. This material is both strong and light. Users will appreciate the sturdy feel of the body and trust its integrity.

Fully Adjustable White Balance

The importance of White Balance in digital photography

Every light source has its own colour. A sunset would be deep orange, whilst a cloudy day would be grey. The human brain adjusts for these changes in light to enable us to see any subject matter with colour accuracy. When recording an image onto film or a CCD the recording will encapsulate the colour of the light as part of the scene. A digital camera can calculate and adjust its colour balance automatically. For further control the Dynax 7D has an exclusive dial for this purpose.

Auto White Balance

When set to this mode the camera will perform the calculations and adjustments automatically. By setting the white point automatically images will appear natural with a neutrality to match the users perception.

Setting Auto White Balance

Turn the dial to the AWB position. All calculations will be made automatically.

Preset White Balance

Six common lighting types are preset to aid selection. Using the front dial the user can scroll between Daylight, Shady, Cloudy, Tungsten, Fluorescent and Flash. Seven further levels of adjustment can be made via the rear dial. With the exception of fluorescent each interval has the equivalent of approximately 10 mired shift.

Custom White Balance

Custom white balance allows the camera to be calibrated to a specific lighting condition. Three settings can be stored in the camera at the same time. This is especially useful when taking pictures in variable lighting conditions.
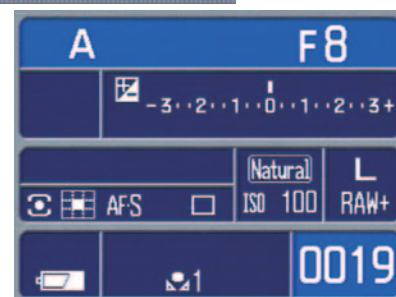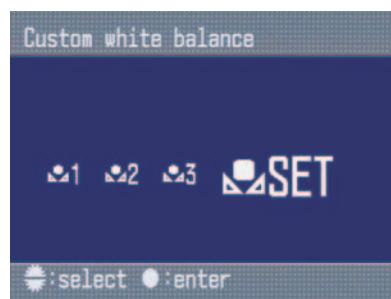
How to register a Custom White Balance

❶ Position the dial ❷ Push the WB button ❸ Select Set ❹ Press AF (enter) ❺ Aim the camera towards a pure white subject and release the shutter ❻ Choose position 1-3 for the calibration to be saved. ❼ Press AF (enter)

How to use Preset White Balance

❶ Position the dial to PWB ❷ Press the WB button ❸ Scroll to the correct lighting type with the front dial. ❹ Scroll the rear dial to select the mired shift value. ❺ Press AF (enter)
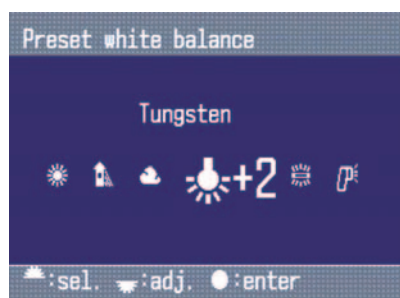
Manual Kelvin Settings

Light is measured in Kelvin; this is referred to as Colour Temperature. The Dynax 7D can be set with adjustments of 100K from 2500K to 9900K. Altering the front dial will change the value by 1000K, turning the rear dial makes alterations of 100K.

*Using the Konica Minolta Colormeter IIIF the user can measure the light source accurately and transfer the setting directly to the Dynax 7D.

3000K   5300K   7500K

Zone Matching Function

To maximise the limited latitude offered by digital capture the Dynax 7D provides Zone Matching. This restricts the range of detail captured from highlights to shadows. If the image does not immediately contain a wide range of tones it is very difficult to realise them with postproduction corrections. Using Zone Matching the camera is able to control the image processing tone curve to retain details in the highlights when set to High. Or minimise unwanted image noise in the shadows when set to Low.

ISO button set   ISO
ISO menu setup   Zone Matching
M set button
Custom reset
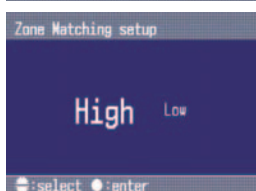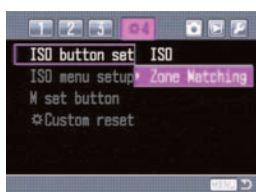
High key lighting in this image requires a clear bright image delivering detail and quality in the white areas avoiding lost highlights

Zone Matching setup

High   Low

:select :enter

Low key lighting creates a dark image requiring graduations of tones to enable the visibility of shadow details and minimised noise.

Other important functions to satisfy users

3 Frames per second up to 9 frames in RAW

Capture images continuously by using the large buffer. Take up to 9 frames, even in RAW+JPEG mode at 3 frames per second. This enables users to capture high quality RAW images at a sports event. The camera also benefits from having a fast reaction speed in single shot mode.

Number of frames in Continuous

File Type	Image Size	Number of Frames
RAW		9
RAW+JPEG	L*	9
	M*	9
	S*	9
Extra Fine	L	12
	M	14
	S	20
Fine	L	15
	M	19
	S	30
Standard	L	19
	M	26
	S	43

*Image Size relates to JPEG only

Exposure Bracketing

This mode can be used in either ambient or flash situations. Take 3 or 5 images in sequence, whilst each image varies the exposure by a preset amount. Choose between 0.5Ev or 0.3Ev increments to obtain the best overall exposure of the scene.
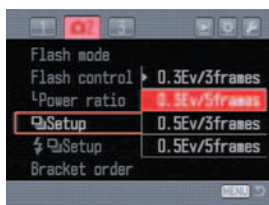
Record Menu, Tab 2

How to set Auto Bracketing
❶ Menu ❷ Tab 2
❸ Bracketing Set Up
❹ Make Selection ❺ Turn dial collar to bracketing single or continuous

-1.0

±1.0

+1.0

Custom Menu

1	Priority Set Up	AF/Release
2	Focus Hold Button	Focus Hold / D.O.F Preview
3	AF/MF button	Hold/Toggle
4	AEL button	AE Hold / AE Toggle / AE Hold / AE Toggle
5	AF w/shutter	On/Off
6	Auto AF setup	Auto AF/ DMF
7	Ctrl dial set	Front SS and Rear F.No. / Front F.No. and Rear SS
8	Exp Comp	Off / Front Dial / Rear Dial
9	Ctrl dial lock	On/Off
10	Exp. Comp. Set	Ambient & Flash / Ambient only
11	AF Illuminator	On/Off
12	Shutter Lock	On/Off
13	AF Area setup	0.3s display / 0.6s display / Display Off
14	Monitor Disp	Automatic / Manual
15	Rec Display	Auto Rotate / Horizontal
16	AS Finder Display	On/Off
17	ISO button set	ISO / Zone Matching
18	ISO menu setup	100-1600 / 100-3200
19	M Set button	Memory / Menu Shortcut
20	Custom Reset	Enter

Exclusive software provides convenient storage and creative adjustment

DiMAGE Master (Optional)

DMA-100 £99.99

DiMAGE Master is a new software program for RAW image conversion together with image correction. The new RAW processing algorithm has improved colour reproduction. Further new functions include focus check, image comparison and image sorting for archival.
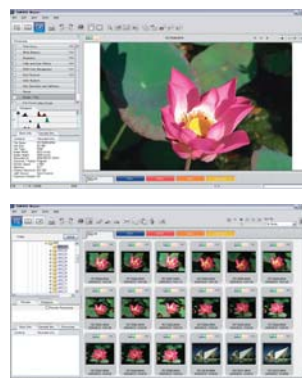
DiMAGE Master System Requirements

	IBM PC/AT compatible computers	Apple Macintosh series computers
CPU	Pentium II or equivalent (Pentium III Preferred)	Power PC G3 (G4 Preferred)
OS	Windows 2000 Professional, Windows XP (Home/Professional).	Mac OS X v10.1.3-10.1.5, v10.2.1-10.2.8, v10.3-10.3.5
RAM	128MB or more (256MB Preferred)	128MB or more of available RAM (256MB Preferred)
Hard Disk Space	Minimum 200MB	Minimum 200MB
Monitor Resolution	1024x768 (XGA) (Minimum)	
Monitor Colour	True Colour (24bit)	True Colour (24bit)
CD-ROM	CD-ROM required for installation	

DiMAGE Viewer (included)

Dynax 7D is bundled with the latest version of DiMAGE Viewer. This software is suitable for image examination, minor corrections and transfer. Main features include an overview of the image, image classification, reading of EXIF data and batch processing with renaming. Printing features allow for index sheet*, colour matching, print to fit paper size.

*Windows only

DiMAGE Viewer System Requirements

	IBM PC/AT compatible computers	Apple Macintosh series computers
CPU	Pentium 133MHz processor or larger	Power PC 100MHz or higher
OS	Windows 98/98SE, Windows Me, Windows 2000 Professional, Windows XP (Home/Professional).	Mac OS 9.0-9.2.2, Mac OS X v10.1.3-10.1.5, v10.2.1-10.2.8, v10.3-10.3.5
RAM	64MB or more (128MB or more with Windows XP)	128MB or more of available RAM
Hard Disk Space	Minimum 200MB	Minimum 200MB
Monitor Resolution	Minimum resolution of 800x600. 1024x768 (XGA) or higher is recommended.	
Monitor Colour	True Colour (24bit)	True Colour (24bit)
CD-ROM	CD-ROM required for installation	

Wide Range of Accessories to expand your photographic opportunity

Flash

Program Flash 5600HSD

Program Flash 3600HSD

Program Flash 2500HSD

Ring Flash 1200AF

Twin Flash 2400AF

Macro Flash Controller

Flash Accessories

Off Camera Shoe OS-1100

Off Camera Cable OC-1100

Triple Connector TC-1000

Flash Shoe Adaptor FS-1100

Cable CD

Cable EX

Bounce Reflector V set

External Battery Pack EP-2

Supplied Accessories

Wide Strap WS-4
Shoe Cap SC-1000
Eyecup EC-1400
Body Cap BDC-1000
Lithium Ion Battery NP-400 Charger BC-400
DiMAGE Viewer CD-ROM
USB Cable USB-2
Video Cable VC-500

New Dynax 7D Accessories

Vertical Control Grip VC-7D

Uses one or two NP-400 batteries. Alternatively use 6x AA Ni-Mh cells.

Holding Strap HS-1

Viewfinder Accessories

Angle Finder VN

Magnifier VN

Eyepiece Corrector 1000

Other Accessories

Remote Cord RC-1000L 5m

Remote Cord RC-1000S 50cm

AC Adapter AC-11

DiMAGE Master CD-ROM

Soft Case CS-7D

Service Centre Alterations

The standard screen may be changed by the return of the camera to the Konica Minolta Service Centre. Type M and ML use Super Spherical Acute Matte glass. This delivers a brighter, sharper image when used with faster lenses (f1.4-f2.8), this produces a more distinct difference between and in focus and out of focus image, especially useful when manually focusing. Type ML is etched with lines to aid composition.
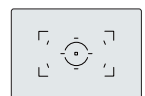
M
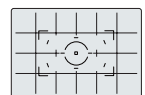
ML/L

Dynax Lens Range

Current Dynax Lenses compatible with Dynax 7D

Lens	Equivalent Focal Length on Dynax 7D	Elements/ Groups	Angle of View	Minimum Focus	Minimum Aperture	Filter (dia.)	Dimensions (dia. x length)	Weight
Wide Angle Lenses								
AF 16mm/2.8 Fisheye	24mm	11/8	180°	0.2m	f/22	integral	75x66.5mm	400g
AF 20mm/2.8	30mm	10/9	94°	0.25m	f/22	72mm	78x53.5mm	285g
AF 24mm/2.8	36mm	8/8	84°	0.25m	f/22	55mm	65.5x44mm	215g
AF 28mm/2	42mm	9/9	75°	0.3m	f/22	55mm	66.5x49.5mm	285g
AF 28mm/2.8	42mm	5/5	75°	0.3m	f/22	49mm	65.5x42.5mm	185g
AF 35mm/1.4 G	52.5mm	10/8	63°	0.3m	f/22	55mm	68x76mm	490g
AF 35mm/2	52.5mm	7/6	63°	0.3m	f/22	55mm	66.5x48.5mm	240g
AF 50mm/1.4	75mm	7/6	47°	0.45m	f/22	55mm	65.5x43mm	235g
AF 50mm/1.7	75mm	6/5	47°	0.45m	f/22	49mm	65.5x39mm	170g
AF 85mm/1.4 G (D)	127.5mm	7/6	28.5°	0.85m	f/22	72mm	81.5x72.5mm	560g
Telephoto Lenses								
AF 300mm/2.8 Apo G (D) SSM*7	450mm	13/12	8°10	2.0m	f/32	integral	122x242.5mm	2,310g
AF 200mm/2.8 Apo G	300mm	8/7	12°30'	1.5m	f/32	72mm	86x134mm	790g
AF 300mm/2.8 Apo G	450mm	11/9	8°10'	2.5m	f/32	integral	128x238.5mm	2480g
AF 300mm/4 Apo G	450mm	9/7	8°10'	2.5m	f/32	42mm	91x220.5mm	1410g
AF 400mm/4.5 Apo G	600mm	9/7	6°10'	3.0m	f/32	integral	109x275mm	1920g
AF 600mm/4 Apo G	900mm	10/9	4°10'	6.0m	f/32	integral	169x449mm	5500g
AF Reflex 500mm/8 *6	750mm	7/5	5°	4.0m	-	integral	89x118mm	665g
Zoom Lenses								
AF 17-35mm/3.5 G	25.5-52.5mm	15/12	104°-63°	0.3m	f/22	77mm	82.5x90.5mm	600g
AF 17-35mm/2.8-4 (D)	25.5-52.5mm	14/11	104°-63°	0.3m	f/22-32	77mm	83x88.5mm	430g
AF 20-35mm/3.5-4.5	30-52.5mm	13/11	94°-63°	0.5m	f/22-27	72mm	77.5x69.5mm	325g
AF 24-85mm/3.5-4.5	36-127.5mm	14/12	84°-29°	0.5m	f/22-27	62mm	74x73mm	415g
AF 24-105mm/3.5-4.5 (D)	36-157.5mm	12/11	84°-23°	0.5m	f/22-27	62mm	71x69mm	395g
AF 28-70mm/2.8 G	42-105mm	16/11	75°-34°	0.85m	f/22	72mm	83x114.5mm	850g
AF 28-75mm/2.8 (D)	42-112.5	16/14	75°-32°	0.33m	f32	67mm	73mmx94mm	510g
AF 28-100mm/3.5-5.6 (D)	42-150mm	10/8	75°-24°	0.25m	f/22-38	55mm	66x78mm	240g
AF 70-200mm/2.8 Apo G (D) SSM*7	105-300mm	19/16	34°-12°30'	1.2m	f/32	77mm	87x196.5mm	1,340g
AF 70-210mm/4.5-5.6 II	105-315mm	10/10	34°-12°	1.1m	f/22-27	49mm	69.5x93mm	320g
AF 75-300mm/4.5-5.6 (D)	112.5-450mm	13/10	32°-8°10'	1.5m	f/32-38	55mm	71x122mm	460g
AF 80-200mm/2.8 Apo G	120-300mm	16/13	30°-12°30'	1.8m	f/32	72mm	88.5x166.5mm	1280g
AF 100-300mm/4.5-5.6 Apo (D)	150-450mm	11/10	24°-8.2°	1.5m	f/32-38	55mm	73.5x101.5mm	485g
AF 100-400mm/4.5-6.7 Apo	150-600mm	14/11	24°-6°10'	2.0m	f/32-45	72mm	79.5x149mm	840g
Macro Lenses								
AF 50mm/2.8 Macro (D)	75mm	7/6	47°	0.2m	f/32	55mm	71.5x60mm	295g
AF 100mm/2.8 Macro (D)	150mm	8/8	24°	0.35m	f/32	55mm	75x98.5mm	510g
AF 200mm/4 Macro Apo G	300mm	13/8	12°30'	0.5m	f/32	72mm	79x195mm	1,130g
Special Lenses								
AF 100mm/2.8 SOFT FOCUS	150mm	7/7	24°	0.8m	f/32	55mm	71.5x78mm	440g
STF 135mm/2.8 [T4.5] *5	202.5mm	8/6	18°	0.87m	f/2.8(T4.5)-31(T32)	72mm	80x99mm	730g
AF Macro Zoom 3X-1X/1.7-2.8	8x12 (3x) 24x36 (1x)	7/5	3X:8x12mm*1, 1X:24x36mm*1	Working Distance 3X:25mm, 1X:40mm	3X: f/16, 1X: f/27	-	86x117x94.5m m*2	1,100g
Optical Converters								
AF 1.4X Tele Converter Apo (D)*3	n/a	5/4	-	-	-	-	64x20mm	170g
AF 2X Tele Converter Apo (D)*4	n/a	6/5	-	-	-	-	64.5x43.5mm	200g
Information								

Circular 7- or 9 - Blade Aperture
The closer the aperture shape is to becoming a perfect circle, the more beautiful your defocused effect will be. That's why Konica Minolta's specially-designed aperture blades produce a circular opening from their widest setting down 1.5 steps to help smooth a scene's out-of-focus areas. When you take a picture with sunlight shining through foliage, a picture at sunset or a picture of neon lights, the source of the light can be defocused beautifully. The number of aperture blades must be maximized to make the aperture as perfectly circular as possible. Conversely, each blade can be curved to produce a circular aperture, and thus a desired blurring effect.

Aspherical Lenses
Konica Minolta retains a distinct advantage in the use of aspherical optics. With ordinary spherical lenses, the focal point varies according to whether the incident light passes through the central or peripheral part of the lens, thus producing spherical aberration. While perfect compensation has never been achieved, and is particularly difficult to compensate for in large diameter lenses, decreasing the lens curve or combining dispersion lenses are methods commonly used in an attempt to compensate for spherical aberration. Konica Minolta's aspherical lenses are developed not only to correct spherical aberration in large diameter lenses, but also to take high contrast images with less blotting effects while in the largest aperture. Konica Minolta's aspherical lenses are effective in correcting distortion while using wide and standard zooms. What's more, the use of aspherical lenses decreases the total number of lenses required to produce a complete lens. This technology has enabled Konica Minolta to create more compact lenses.

G-Series Lenses
G-Series AF lenses stand out for the distinctive level of image quality and photographic performance they provide serious photographers. Circular aperture design, double-floating and floating focusing systems, AD (Anomalous Dispersion) glass, aspherical lens elements and a focus-hold button, are advanced G-Series design features that help produce a unique soft and natural defocusing effect, as well as enabling you to take truly high quality photos with the sharpness and vividness you expect.

AD Glass
AD (Anomalous Dispersion) glass decreases chromatic aberration more than normal optical glass, to prevent a decrease in resolving power which occurs when the focal length increases. The unique AD glass developed by Konica Minolta enables vivid reproductions when using large diameter telephoto lenses and telephoto zoom lenses.

SSM Lenses
SSM (Supersonic-wave Motor) Lenses uses the nature of piezo-electric element, which changes shape when voltage is applied. Compared to conventional DC motors, the supersonic-wave motor has characteristics that fit the lens drive, such as producing high torque from slow rotation and providing quick start and stop responses. By employing this motor, the SSM lenses provide ultra-quiet, ultra-smooth and superior AF operation

1: Size of image that fills the film plane.
*2: W x D x H.
*3, *4: For use with AF 300/2.8 Apo G (D) SSM(1), AF 70-200/2.8 Apo G (D) SSM(1), AF 200/2.8 Apo G, AF 300/2.8 Apo G, AF 300/4 Apo G(2), AF 400/4.5 Apo G(2), AF 600/4 Apo G(2), AF 200/4 Macro Apo G(3), and STF 135/2.8 [T4.5](3) lenses only.
Autofocus can't be used in the following combinations:
· AF 1.4X / AF 2X Tele Converter Apo (D), lenses displaying this sign ((1)) and camera models introduced before Dynax 7 (excluding the up-dated Dynax 9).
· AF 2X Tele Converter Apo (D) and lenses displaying this sign ((2)).
· AF 1.4X / AF 2X Tele Converter Apo (D) and lenses displaying this sign ((3)).
*5: Manual focus only.
*6: When attached to the 3000i, 9000, 7000 and 5000, neither AF nor Focus Indicator can be used. Focusing must be manual.

*7: Autofocus cannot be used in the following combinations:
· With the camera models introduced before the Dynax7 (excluding the updated Dynax 9).
· With the former tele converters AF 1.4X Tele Converter II Apo / AF 2X Tele Converter II Apo.
Notice: When used with si- and xi-Series cameras, all AF lenses can be operated in either autofocus or manual focus mode. Expert Autozoom features cannot be used.
The above specifications are determined based on Konica Minolta test standards.
The specifications are based on the information available at the time of printing and are subject to change without notification.
The colour of the products shown may differ slightly from the actual units due to the printing proccess.
*Focal length quoted is measured whilst focused at infinity. Some lens focal lengths may alter as the focus point is moved.
*Lenses are brighter at the centre of the image circle. If darkening of the corners is noticeable a wider aperture (1-2 stops larger) is required.

NEW LENSES

AF Lens 17-35mm F2.8-4 (D)

A wide-angle, zoom lens with high resolution and brightness. Features a circular iris with excellent defocusing characteristics, and Advanced Distance Integration (ADI) for enhanced flash shooting performance. Also suitable for use with any Dynax film SLR.

AF Lens 28-75mm F2.8 (D)

A versatile zoom lens with bright imaging at any focal length. Features a circular iris with excellent defocusing characteristics, and Advanced Distance Integration (ADI) for enhanced flash shooting performance. Also suitable for use with any Dynax film SLR.
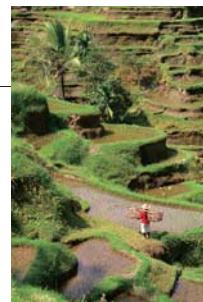
Menu Operation

Image Capture Menu

1		
Image Size	L / M / S
Quality	RAW / RAW & JPEG / Extra Fine / Fine / Std
Color Mode	Natural :sRGB / Natural + :sRGB / Embed Adobe RGB
Digital FX	Enter
Camera Reset	Enter

2		
Flash Mode	Fill Flash / Red eye / Rear Sync / Wireless
Flash Control	ADI Flash / Pre-Flash TTL / Manual
Power Ratio	1/1(Full) / 1/2 / 1/4 / 1/8 1/16
Bracketing Setup	0.3Ev 3Frames / 0.3Ev 5 Frames / 0.5 Ev 3Frames / 0.5 Ev 5 Frames
Flash Bracketing Setup	0.3Ev 3Frames / 0.3Ev 5 Frames / 0.5 Ev 3Frames / 0.5 Ev 5 Frames
Bracket Order	0 →−→+ /− →0→+

3		
Inst.Playback	10 sec./ 5 sec. / 2 sec. Off
Set Up	Image Only / Image & info / Image & Hist.
Noise Reduction	On / Off
Interval	Setup / Start

Custom Menu

☼1		
Priority Set Up	AF/Release
Focus Hold Button	Focus Hold / D.O.F Preview
AF/MF button	Hold/Toggle
AEL button	AE Hold / AE Toggle / AE Hold / AE Toggle
AF w/shutter	On/Off
Auto AF setup	Auto AF/ DMF

☼2		
Ctrl dial set	Front SS and Rear F.No. / Front F.No. and Rear SS
Exp Comp	Off / Front Dial / Rear Dial
Ctrl dial lock	On/Off
Exp. Comp. Set	Ambient & Flash / Ambient only
AF Illuminator	On/Off

☼3		
Shutter Lock	On/Off
AF Area setup	0.3s display / 0.6s display / Display Off
Monitor Disp	Automatic / Manual
Rec Display	Auto Rotate / Horizontal
AS Finder Display	On/Off

☼4		
ISO button set	ISO / Zone Matching
ISO menu setup	100-1600 / 100-3200
M Set button	Memory / Menu Shortcut
Custom Reset	Enter

Playback Menu

▶1		
Delete	Marked Frames / All in folder / All on card
Format	Enter
View Folder	Single Folder / All Folders
Folder Name	
Lock	Marked Frames / All in folder / All on card / Unlock Folder / Unlock Card
Index Format	16 Frames / 9 Frames / 4 Frames / File Browser

▶2		
Slide Show	Enter
DPOF Set	Marked Frames / All in Folder / All on card
Date Imprint	On / Off
Index Print	On / Off
Cancel print	All Frames-F / All Frames-C

Set Up Menu

| 🔧1		
LCD Brightness	Enter
Transfer Mode	Data Storage / PTP / Remote Storage
Video Output	NTSC / PAL
Audio Signals	On / Off
Language	Japanese / English / Deutsch / Francais / Espanol / Chinese / Italiano / Svenska
Date/Time set	Enter

🔧2		
File # Memory	On/Off
Folder name	Std. form / Date form
Select Folder	
New Folder	Enter

🔧3		
LCD Backlight	1 min. / 30 sec. / 10 sec. / 5 sec.
Power Save	30 min / 10min. / 5 min. / 3 min. / 1 min.
MenuSec. Memory	Off / On
Delete Conf.	Yes / No
Clean CCD	Enter
Reset Default	Enter

Quick Settings Guide

Guide 1 — The two functions of the AEL button
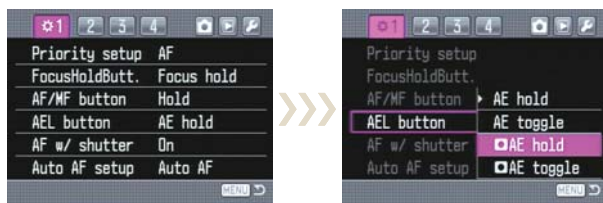
AEL Button functions for Standard AEL and Spot AEL

1- Standard AEL will lock the exposure for one image in default. Or in AEL Toggle lock the exposure for all images until the AEL button is pressed again

2- Spot AEL will lock the metering from the Spot Area only, regardless of which metering position the lever is set to. AEL Spot toggle locks the exposure for all images until the AEL is pressed again.

Guide 2 — Custom White Balance Setting

Custom White Balance is set via the lever on the top of the camera.

1- Turn the lever to the third position (clockwise). Press the WB button once.

2- Aim the spot area of the viewfinder towards a white subject and release the shutter. A calibration reading will be made. Check the image and save it to one of the three positions available.
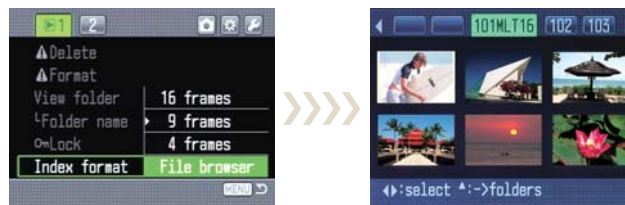
Guide 3 — One Image Replay / Magnify / Index Mode
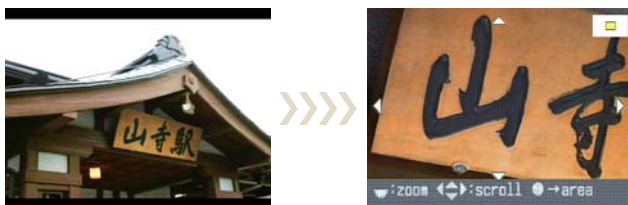
Press the Play Button Once

1- Press the Magnify button once, Zoom with the rear dial, Scroll around the image with the rear four way controller.

2- Press the AF (enter) button for overview and selected magnify area.

*RAW images cannot be magnified

Index Playback with File Browser

1- Press the Monitor button twice for Index Playback of 4, 9 or 16 images at one time.

2- Select File Browser from Tab 1 of the Playback menu and tab between all folders contained within the inserted memory card.
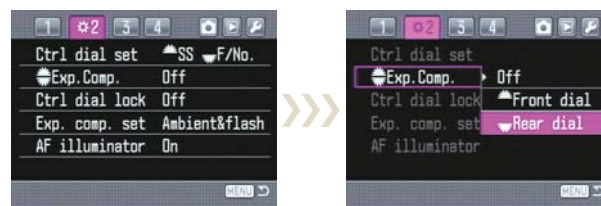
Guide 4 — AF-A / DMF Setting

Custom Menu Tab 1

1- When set to Auto AF the camera will focus and stop. If DMF is required the AF/MF button must be pressed.

2- If DMF is permanently required select DMF within the menu and the camera will automatically focus in AF-A confirm focus and then switch to DMF for user adjustment.

Guide 5 — Exposure Compensation Front or Rear Dial

If the user prefers to use a P, A or S program exposure modes and alter the exposure compensation with an input dial select Custom Menu 2 Exp. Comp.

1- Select to control Exposure compensation via the Front or Rear dial. This feature is only operative when the exposure compensation dial is set to '0'.

2- If using A or S program exposure mode the selection of shutter speed or aperture alters to the opposite dial than the one selected for exposure compensation. If the exposure compensation dial is moved this will override any settings from the chosen input dial.

Captured your best pictures on the Dynax 7D? Turn them into printed masterpieces with the best inkjet paper!

Dynax 7D Specification

CAMERA TYPE		Digital SLR camera with built-in flash and interchangeable lens
LENS USED		Minolta A-type bayonet mount
IMAGE CAPTURE	Image sensor	Interline primary color CCD (23.7 mm x 15.6 mm) with interlace scan
	No. of pixels (approx.)	Total: 6.3 million, Effective: 6.1 million
	Sensitivity	Auto, ISO 100 / 200 / 400 / 800 / 1600 / 3200 equivalents
	White balance control	Automatic, Preset (Daylight, Shade, Cloudy, Tungsten, Fluorescent, Flash), Custom,Color temperature setting available
RECORDING	Recording media	Type I and Type II CompactFlash Cards / Microdrive, SD*Memory Cards / Multi Media Card* * with optional SD-CF1 in use
	File format	JPEG, RAW, RAW+JPEG, (DCF 2.0 compliant, DPOF supported by printing functions in ver.1.1, Exif 2.2)
	Format function	FAT 12, 16, 32 supported
	Folder name formats	Standard, Date
	No. of recorded pixels Storage capacity (approx.) (with 256MB CF card in L / M / S size)	L: 3008 x 2000, M: 2256 x 1496, S: 1504 x 1000 (L: 3008 x 2000 / M: 2256 x 1496 / S: 1504 x 1000) STD: 138 / 235 / 463, FINE: 81 / 141 / 292, EXTRA-FINE: 41 / 72 / 157, RAW+JPEG: 19 / 21 / 23, RAW: 26 / - / -
	Color mode	Natural (sRGB), Natural+ (sRGB), Adobe RGB (ICC)
	Image quality mode	Standard, Fine, Extra-fine, Raw, RAW+JPEG
	Contrast / saturation / sharpness / hue adjustment	5 steps: -2, -1, 0, +1, +2
	Noise reduction	Available at shutter speed longer than 1 s
	Delete function	Single, multiple, or all frames in a folder / memory card can be deleted *selectable in the Menu, except single frame deletion
PLAYBACK	LCD monitor	2.5-inch TFT color, Total pixels: 207,000
	No. of frame displayed	1, Index (4, 9, 16 selectable)
	Display mode	Image only, image + text, image + text + histogram
AF SYSTEM	Type	TTL phase-detection system
	Sensor	CCD line sensors (9 points, 8 lines with center cross-hair sensor)
	Sensitivity range	EV-1 ~ EV18 (ISO 100 equivalent)
	Main functions	Wide area with local area selection, AF-A/C/S/MF switchable, predictive focus control for moving subject, auto-tracking focus-point display
	AF illuminator	Activated with the built-in flash in low-light / low contrast situations. Range: 1 m ~ 5 m / 3.3 ft ~ 16.4 ft
AE SYSTEM	Metering type	Direct TTL metering; 14-segment honeycomb-pattern metering, Center-weighted metering, Spot metering
	Metering cell	14-segment honeycomb-pattern SPC
	Metering range	EV 0 (EV 3 with Spot metering) ~ EV 20 (ISO 100 equivalent, with f/1.4 lens)
	Exposure modes	P/Full-auto program (Programmed AE with program shift), A, S, M
	Exposure compensation	± 3EV in 1/2 EV increments, ± 2EV in 1/3 EV increments
	Flash compensation	± 2EV in 1/2 EV increments
	Flash metering system	Multi-segment ADI / P-TTL flash metering, Manual
	AE lock	Automatically activated with AF lock. Available with AEL button

BUILT-IN FLASH	Guide No.	GN 12 (in meters at ISO 100), GN 17 (ISO 200) * with 24mm lens cover in use
	Recycling time	Approx. 3 s
	Control	Manual switchover; lift-up for Fill Flash, push down for Flash Cancel
	Flash mode	Fill Flash, Pre Flash with Red-eye reduction. (Rear flash sync, Wireless/Remote off-camera flash, High-speed sync. Flash* (*available with external flashes))
SHUTTER	Type	Electronically-controlled, vertical-traverse, focal-plane type
	Range	1/4000 s ~ 30 s, Time-exposure (Bulb) possible
	Flash sync speed	1/160 s (with Anti-Shake OFF), 1/125 s (with Anti-Shake ON)
VIEWFINDER	Type	Eye-level fixed system with optical-glass pentaprism
	Focusing screen	Spherical Acute Matte (G-type as standard)
	Field of view	Approx. 95%
	Magnification	0.9x * with 50mm lens focused on infinity, at -1 m^{-1}
	Eye relief	Approx. 25 mm from the eyepiece, 21 mm from the eyepiece frame in -1 dioptor (-1m^{-1}), Eyepiece cup removable.
	Diopter control	-3.0 ~ +1.0 m^{-1}
DRIVE	Drive mode	Single,Continuous, 10 s / 2 s Self-timer, Single bracket, Continuous bracket
	Continuous advance(approx.)	Max. 9 frames (RAW / RAW+JPEG),max. 12 frames (JPEG, L-EXTRA-FINE), max. 15 frames (JPEG, L-FINE)
	Interval	2-240 frames, Interval time:0.5/1-10/15/20/30/45/60 minutes, Start timer is equipped. (Settings: 0.5 to 24 H, in 0.5 increments)
	Self-timer	10 s / 2 s delay selectable, with time display by LED
	Exposure bracketing	With 0.3 / 0.5 EV increments, 3 / 5 frames
ANTI-SHAKE	System	CCD-Shift mechanism
	Shake display	LED indicator in viewfinder
	Shake compensation	Equivalent to 2 – 3 steps in shutter speed(varies according to the lens used & shooting conditions)
OTHERS	Other functions	Instant playback, zone matching, remote-storage function (Requires firmware update. Firmware updater and DiMAGE Transfer software will be available for download in January 2005.)
	PC interface	USB 2.0 High-Speed
	Video output	PAL / NTSC
	Operating temperature	0 to 40 degrees centigrade / 32 to 104 degrees Fahrenheit
	Printing output control	Exif Print, PRINT Image Matching III, PictBridge
	Battery	Lithium-ion battery NP-400
	Battery performance	No. of frames recorded: approx. 400 (CIPA measurement), approx. 600 (Konica Minolta measurement)
	External power source	6 V DC (with specified AC adapter AC-11), Vertical Control Grip VC-7D (possible to adopt two NP-400 batteries, or six AA size Ni-MH batteries)
	Dimensions (WxHxD)	Approx. 150 mm x 106 mm x 77.5 mm / 5.9 in. x 4.2 in. x 3.1 in.
	Weight (approx.)	Approx. 760 g / 26.8 oz. * without batteries and recording media
COMPATIBLE COMPUTERS		IBM PC / AT compatible computers: Windows Me, Windows 2000 Professional, Windows XP (Home / Professional), Windows 98, or Windows 98 Second Edition
		Apple Macintosh computers:Mac OS 9.0 – 9.2.2, Mac OS X v.10.1.3 – 10.1.5, v.10.2.1 – 10.2.8, v.10.3 – 10.3.5.

Number of frames recorded according to image quality and size

Image quality mode	No. of recorded pixels	File size (approx.)	Continuous advance	Storage capacity (w. 256 MB CF Card)
RAW		8.6 MB	9	26
RAW + JPEG	L (*)	11.5 MB	9	19
	M(*)	10.2 MB	9	21
	S(*)	9.3 MB	9	23
EX-FINE	L	5.9 MB	12	41
	M	3.3 MB	14	72
	S	1.6 MB	20	157

Image quality mode	No. of recorded pixels	File size (approx.)	Continuous advance	Storage capacity (w. 256 MB CF Card)
FINE (JPEG)	L	3.0 MB	15	81
	M	1.7 MB	19	141
	S	850 KB	30	292
STD. (JPEG)	L	1.8 MB	19	138
	M	1.0 MB	26	253
	S	540 KB	43	463

- L : 3008 x 2000, M: 2256 x 1496, S: 1504 x 1000
- The actual number of frames may vary according to the subject and media used.
- The computer and operating system must be guaranteed by their manufacturers to support USB interface.
- Users with Windows 98 and Windows 98 Second Edition operating systems must install dedicated driver software included in the DiMAGE Viewer CD-ROM.
- Inherent limitations in current LCD manufacturing technology may result in the appearance of one or more light or dark pixels in the LCD monitor. Such light or dark pixels do not affect overall performance or camera operation and are not indicative of monitor damage.
- Specifications and accessories are subject to change without notice.

Notes

- Problems may be encountered when other USB devices are being used in parallel with this product.
- Only a built-in USB port is supported. Problems may be encountered when the camera is connected to a USB hub.
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