

2009

# HDC-TM20 High Definition Camcorder



### Compact Size 1MOS Full-HD

1MOS system with larger sensor,  
Leica Dicomar Lens, OIS



### 16x Optical Zoom and Advanced OIS

Brings distant subjects up close while maintaining  
image quality



### iA AF Tracking and Touch Panel

Pinpoint face designated by touch panel

- 16GB\* internal memory
- Touch screen navigation
- 5.1 surround sound recording with zoom mic
- 0.6 sec quick start (SD only)
- Touch-panel 2.7" wide LCD
- 60 shots/second burst recording
- Time lapse recording
- Video light/flash
- Highlighted playback
- Built-in MPEG2 converter

**Panasonic**  
ideas for life

2009 **HDC-TM20** High Definition Camcorder Specifications

		HDC-TM20
<b>GENERAL</b>		
Power Supply		DC7.2V / 9.3V
Power Consumption		5.7W
Weight (w/o Battery)		approx. 270g (0.60 lb)
Dimension (W x H x D)		64 x 67 x 127 [mm](2.52 x 2.64 x 5.00 [inch])
Media		Built-in memory (16GB), SD/SDHC Memory Card
On-Screen Display Language		Please refer to "OSD" sheet
<b>IMAGE SENSOR</b>		
Image Sensor		1/6" MOS
Total Pixels		1.47 megapixels
Effective Pixels		
	Motion Image	1.17 megapixels [16:9]
	Still Image	1.17 megapixels [16:9]
<b>LENS SECTION</b>		
Lens Brand		Leica Dicomar Lens
F Value		F1.8(WIDE)/3.3(TELE)
Optical Zoom		16x
Digital Zoom		40x-1000x
Focal Length		2.95-47.2 mm
35mm Film Camera Equivalent		44.1-706mm (16:9)
Filter Diameter		43mm
<b>CAMERA SECTION</b>		
Standard Illumination		1400 lx
Minimum Illumination		9 lx (1/30 Low Light Mode) 1 lx (MagicPix®)
Image Stabilizer		Advanced O.I.S. [Optical Image Stabilization]
Focus		Auto / Manual
White Balance		Auto / Indoor1 / Indoor2 / Sunny / Cloudy / White set
Shutter Speed		
	Motion Image	[60i] Auto Slow Shutter ON: 1/30-1/8000, OFF: 1/60-1/8000 [24P] Auto Slow Shutter ON: 1/24-1/8000, OFF: 1/48-1/8000
	Still Image	[60i] Auto Slow Shutter ON: 1/30-1/8000, OFF: 1/60-1/8000 (Progressive : 1/30-1/500) [24P] Auto Slow Shutter ON: 1/24-1/8000, OFF: 1/48-1/8000 (Progressive : 1/24-1/500)
Iris		Auto / Manual
Backlight Compensation		Yes
<b>MONITOR</b>		
EVF		—
Monitor (LCD)		2.7 Wide LCD (230,400 pixels)
<b>STILL IMAGE SECTION</b>		
Recording Format		JPEG
Recording Image Size		
	Still Picture	2.1 megapixels (1920 x 1080) [16:9]
	Simultaneous Recording	2.1 megapixels (1920 x 1080) [16:9]
	Still Image	2.1 megapixels (1920 x 1080) [16:9]
Flash		Yes
DPOF		Yes
PictBridge		Max. 999 images
<b>RECORDING SECTION</b>		
Signal System		1080 / 60i
Recording Format		MPEG4-AVC/H.264 (AVCHD standard compliant) HA (17Mbps / VBR), (1920 x 1080) HG (13Mbps / VBR), (1920 x 1080) HX (9Mbps / VBR), (1920 x 1080) HE (6Mbps / VBR), (1440 x 1080)
Recording / Playback Mode		Dolby Digital (5.1ch)
Audio Recording System		5.1ch Surround, Zoom mic.
Microphone		Dynamic type
Speaker		Yes
Media Remaining Indication		Yes
<b>INTERFACES</b>		
AV		Out
HDMI		Yes (mini)
Microphone (stereo mini)		—
Headphones		—
USB		2.0 Hi-Speed
Video Component		Yes
<b>OTHERS</b>		
LED Video Light		Yes
Accessory Shoe		—
<b>STANDARD ACCESSORIES</b>		
AC Adaptor		Yes
AC Cable		Yes
DC Cable		Yes
Rechargeable Battery Pack		min. 725 mAh / Lithium-Ion
Video Component Cable		Yes
AV Cable		Yes
IR Remote		Yes
USB Cable		Yes
SD Memory Card		—
Included Software		HD Writer AE 1.0

\*1GB=1 billion bytes. Usable capacity will be less.