



P. O. Moozhikkara, Thalassery,  
Kannur - 670 103, Kerala, S. India

# MALABAR CANCER CENTRE

(an autonomous centre under Government of Kerala)

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## QUOTATION NOTICE

No: 1418/NC-ITE/P2/17-18/MCC/DC

Department: Institute of Nursing Sciences and  
Research, MCC

Sealed quotations are invited for the supply of **Digital Camera (1 Nos.)** in Institute of Nursing Sciences and Research of Malabar Cancer Centre, Thalassery.

### Specifications: Digital Camera

Type	Digital, single-lens reflex, AF/AE camera with built-in flash
Recording Media	SD / SDHC / SDXC memory cards
Image Sensor Size	Approx. 22.3 x 14.9mm
<b>Image Sensor</b>	
Type	CMOS sensor
Effective Pixels	Approx. 24.2 megapixels
Aspect Ratio	3:2
<b>Recording System</b>	
Image Type	JPEG, RAW (14-bit)
Recorded Pixels	Large: Approx. 24 megapixels, Medium: Approx. 10 megapixels, Small: Approx. 350,000 pixels
Aspect ratio	3:2, 4:3, 16:9, 1:1
<b>Image Processing During Shooting</b>	
Picture Style	Auto, Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, etc.
White balance	Auto, Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom White Balance correction and White balance bracketing possible
Noise Reduction	Applicable to long exposures and high ISO speed shots
Automatic Image Brightness Correction	Auto Lighting Optimizer
Highlight Tone Priority	Provided
Lens Aberration Correction	Peripheral illumination correction, Chromatic aberration correction, Distortion correction
<b>Viewfinder</b>	
Type	Eye-level penta mirror
Coverage	Vertical / Horizontal approx. 95%
Eye Point	Approx. 19 mm
Focusing Screen	Fixed, Precision Matte
Others	Grid display, Depth-of-field Preview, Quick-return type Mirror

<b>Autofocus</b>	
Type	TTL secondary image-registration, phase-difference detection with the dedicated AF sensor
AF Points	19 points
Focusing Brightness Range	EV -0.5 - 18
Focus Operation	One-Shot AF, AI Servo AF, AI Focus AF Manual focusing (MF)
AF area selection mode	Single-point AF, Zone AF, 19-point automatic selection AF
Condition of AF point automatic selection	AF point can be selected automatically in One-Shot AF mode, using information on colors equivalent to skin tones.
AF-assist Beam	Small series of flashes fired by built-in flash
<b>Exposure Control</b>	
Metering Modes	63-zone TTL full-aperture metering using 7560-pixel RGB plus IR metering sensor
Metering Brightness Range	EV 1 - 20
Exposure Control	Program AE (Scene Intelligent Auto, Flash Off, Creative Auto, Portrait, Landscape, Close-up, Sports, Special scene modes (Kids, Food, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control), Program), Shutter-priority AE, Aperture-priority AE, Manual exposure
AE lock	Auto, By AE lock button
<b>Shutter</b>	
Electronically-controlled, focal-plane shutter	
<b>Drive System</b>	
Drive Modes	Single shooting, Continuous shooting, Silent single shooting, Silent continuous shooting, Self-timer: 10-sec. delay/remote control, 2-sec. delay, 10-sec. delay with continuous shooting
Continuous Shooting Speed	Continuous shooting: approx. 5.0 shots/sec. Silent continuous shooting: approx. 3.0 shots/sec.
Max. burst (Approx.)	JPEG Large / Fine: 180 (940) shots
<b>Flash</b>	
Built-in flash	Retractable, auto pop-up flash Guide No.: Approx. 12/39.4 (ISO 100, in meters/feet) Flash coverage: Approx. 17mm lens angle of view Recycling time approx. 3 sec.
Flash Exposure Compensation	±2 stops in 1/3- or 1/2-stop increments
Flash control	Built-in flash function settings, external Speedlite function settings, external Speedlite Custom Function settings, Wireless flash control, FE Lock
<b>Live View Shooting</b>	
Focus Methods	Hybrid CMOS AF III System (Face+Tracking, FlexiZone-Multi, FlexiZone-Single), Manual focus (approx. 5x / 10x magnification possible), Continuous AF, Touch shutter, Grid Display
Focusing Brightness Range	EV 0 - 18
Metering Modes	Real-time metering with image sensor, Evaluative metering, Partial metering, Spot metering, Center-weighted average metering
Metering Range	Focusing brightness range: EV 0 - 20
Creative Filter	Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect
<b>Movie shooting</b>	
Recording format	MP4 Movie: MPEG-4 AVC/H.264 Variable bit rate

	Audio : AAC
Recording Size and Frame Rate	1920 x 1080 (Full HD): 29.97p / 25.00p / 23.98p 1280 x 720 (HD): 59.94p / 50.00p / 29.97p / 25.00p 640 x 480 (SD): 29.97p / 25.00p
Compression Method	Standard / Light
File Size	Full HD (29.97p / 25.00p / 23.98p) (Standard): Approx. 216MB/min. HD (59.94p / 50.00p) (Standard): Approx. 187MB/min. VGA (29.97p / 25.00p) (Standard): Approx. 66MB/min.
Focusing brightness range	EV 0 - 18
Metering Modes	Center-weighted average and evaluative metering with the image sensor
Metering Range	EV 0 - 20
Exposure Control	Program AE for movies and manual exposure
Exposure Compensation	±3 stops in 1/3- or 1/2-stop increments
Miniature effect movie	Possible
Video Snapshots	Settable to 2 sec. / 4 sec. / 8 sec.
Sound Recording	Built-in stereo microphones External stereo microphone terminal provided Sound-recording level adjustable, wind filter provided, attenuator provided
<b>LCD Monitor</b>	
Type	TFT color liquid-crystal monitor
Monitor size and dots	Wide, 7.7cm (3.0-in.) (3:2) with approx. 1.04 million dots
Brightness Adjustment	Manual
Touch Screen Technology	Capacitive sensing
<b>Playback</b>	
Image Display Formats	Single-image display (without shooting information), Single-image display (with simple information), Single-image display (Shooting information displayed: Detailed information, Lens/histogram, White balance, Picture Style, Color space/noise reduction, Lens aberration correction), Index display (4 / 9 / 36 / 100 images)
Zoom Magnification	Approx. 1.5x - 10x
Image Browsing Methods	Single image, jump by 10 or 100 images, by shooting date, by folder, by movies, by stills, by rating
Others	Image Rotate, Image Protect ,slide show (images), Background Music for slide shows and movie playback
Movie Playback	Enabled (LCD monitor, audio/video OUT, HDMI OUT),Built-in speaker
<b>Post-Processing of Images</b>	
Creative filters	Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect , Resize, Cropping, etc.
<b>Interface</b>	
Audio / Video OUT / Digital Terminal	Analog video / stereo audio output, Hi-Speed USB equivalent,, Direct printing, GPS Receiver, etc.
Others	HDMI Mini OUT Terminal , External Microphone IN Terminal, Wireless Remote Control
<b>Wireless LAN</b>	
Standards Compliance	IEEE 802.11b/g/n
Transmission Method	DS-SS modulation (IEEE 802.11b) OFDM modulation (IEEE 802.11g/n)
Transmission Range	Approx. 15m / 49.2ft.

Transmission Frequency	Frequency: 2412 to 2462 MHz, Channels: 1 to 11 ch
Connection Method	Infrastructure mode*, camera access point mode
Security	Authentication method: Open system, Shared key, WPA/WPA2-PSK Encryption: WEP, TKIP, AES
NFC connection	For communication with smartphones or connection to Connect Station
<b>Wi-Fi Functions</b>	
Connection to Smartphones	Images can be viewed, controlled, and received using a smartphone, Remote control of the camera using a smartphone.
Transfer Images between Cameras	Transferring one image, Transferring selected images, Transferring resized images
Print from Wi-Fi printers	Images to be printed can be sent to a printer supporting Wi-Fi.
<b>Power</b>	
Battery	Battery Pack LP-E17
Number of Possible Shots	With viewfinder shooting: Approx. 440 shots at room temperature With Live View shooting: Approx. 180 shots at room temperature
Movie Shooting Time	Approx. 1hr.
<b>Dimensions and Weight</b>	
Dimensions (W x H x D)	Approx. 130 x 100 x 75mm
Weight	Approx. 600g
<b>Battery Pack</b>	
Type	Rechargeable lithium-ion battery
Rated Voltage	7.2 V DC
Battery Capacity	1040 mAh
<b>Battery Charger</b>	
Recharging Time	Approx. 2 hours
Rated Input	100 - 240V AC (50 / 60 Hz)
Rated Output	8.4 V DC / 700 mA

### **Terms and Conditions**

- a) The amount **should be quoted inclusive of all taxes, training & installation charges and** should be quoted in the following format.

Item Name	Make & Model	Quantity	Rate	Total Amount in Rs. (Inclusive of all taxes)
<b>Digital Camera</b>		<b>1 No.</b>		
<b>(Total Amount: Rupees..... only)</b>				

- a) Supply within 2 weeks on receipt of purchase order/supply order.  
b) The Director, MCC reserves the right to accept or reject any or all quotations without assigning any reasons.  
c) Payment: Against delivery/within one week.

The envelopes containing the quotation should bear the superscription “**Quotation for the supply and Installation of Digital Camera in Institute of nursing Sciences and Research**” and should be addressed to **The Director, Malabar Cancer Centre, Moozhikkara (PO), Thalassery, Kannur - 670103, Kerala, India**. Intending tenderers may submit the quotation on their own papers.

**Last date for receipt of quotations is 25/06/2018 at 4.30P.M.** Late quotations will not be accepted. The quotations will be opened at **11.30A.M on 26/06/2018** in the presence of such of the tenderers or their authorized representatives who may be present at that time. The maximum period required for delivery of the articles should also be mentioned.

Details of the requirements and the conditions governing their supply can be obtained free on request from Health IT Division/Purchase Section, Malabar Cancer Centre, till **25/06/2018 at 4.00 P.M.**

**Place: Thalassery**

**Date: 11/06/2018**

(Sd/-)  
**PURCHASE OFFICER**

**Copy to:**

- 1) Notice Board in MCC
- 2) Official Website