

## MINIATURE HEAVY DUTY DOME CAMERA RANGE



100-449 Surface Mount  
100-449DN Surface Mount Day/Night



Modular Construction

100-450 Flush Mount  
100-450DN Flush Mount Day/Night



Power and Video on 1m Flying Leads.

### MINITOUGH

- All Metal Modular Construction
- Tough Acrylic Dome
- Weather Resistant
- Fully Adjustable Internal Swivel 'Eyeball'
- 1/3" True Colour CCD
- High Resolution 480 line colour
- ANFOS™ Anti Focus-Shift Aspheric lens
- Surge & Reverse Polarity Protected
- Flush and Surface Mount Models
- Day/Night Models



104-027 Minitough IR

### MINITOUGH IR

- All Metal Modular Construction
- Vandal Resistant
- IP67 Weather Rating
- EZ-TURN™ Locking Swivel Adjustment
- 1/3" SuperHAD™ CCD
- High Resolution 500 line colour
- ANFOS™ Anti Focus-Shift Aspheric lens
- Dual Anti-IR LED Reflection Glass
- Day/Night Operation – True Colour By Day / High Sensitivity B/W By Night

# NESS MINITOUGH

MiniTough Camera Specifications	100-449 100-450	100-449DN 100-450DN	104-027
IMAGE SENSOR	1/3" Sharp High Sensitivity CCD		1/3" Sony SuperHAD High Res CCD
HORIZONTAL RESOLUTION	480 TV Lines		500 TV Lines / DIET™ Digital Image Enhancement Technology
MIN. ILLUMINATION	0.3 Lux @ F2.0		0.05 Lux @ F1.4
LENS	4mm Anti Back-focus shift Aspherical Lens		4mm IR Anti Back-focus shift Aspherical Lens
ELECTRONIC DAY/NIGHT MODE	No	Yes	
VIDEO S/N RATIO	More than 32dB AGC off		More than 50dB AGC off
WHITE BALANCE	2500°K ~ 9100°K, Auto		2100°K ~ 9500°K, Auto
GAIN CONTROL	4dB ~ 35dB, Auto		
SHUTTER SPEED	1/50 ~ 1/100,000		
BACK LIGHT CONTROL	-		Automatic
IR ILLUMINATION	-		5mm diameter x 28ea
IR OPERATION	-		CDS light sensor controlled
IR RANGE	-		10m nominal
WEATHER RATING	-		IP67
OPERATING TEMP / HUMIDITY	-10°C ~ 60°C / 85% RH		-20°C ~ 60°C / 90% RH
CONNECTIONS	Flying leads for power & Video Output: BNC		
INPUT VOLTAGE	12VDC (8V~23V)		12VDC (8V~35V)
CURRENT CONSUMPTION	90mA @ 12VDC		IR LEDs off: 140mA IR LEDs on: 480mA @12VDC
OUTPUT CONNECTIONS	Shielded Flying Leads for Power & BNC Video		
DIMENSIONS	Surface models: 80mm dia x 65mm height Flush models: 66mm recess dia x 35mm depth		95mm dia x 80mm height
WEIGHT	280g		520g

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