

#### **EXTREME ENVIRONMENT EQUIPMENT TECHNOLOGY**

# DATA SHEET HD SUBSEA VIDEO/STILLS CAMERA RAYHDCAM-002LANC





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## **SPECIFICATIONS**

Camera Type: HDR CX12 or similar

Video Format; MPEG4 AVC/H.264; 1920-1080i; 1440x1080i

Recording Media: PRO-DUO SD memory 16gig.

Camera Control: Windows Software driven RS485/LANC control

Software Control: Power On/Off

Record Start /Stop. Video or Stills Select

Timed Stills Trigger Internal and External

Zoom In /Out Focus Near / Far Focus Auto/manual

4 x Normally open Relay contacts.

Video Selector Switch

Video Output: Via line driver up to 1500m RG58bu COAX

Lens Type: RAYNOX X5 Wide angle Adaptor

Auxcillary: Standard Definition or Digital Stills camera Connection

Depth Rating: 2000MSW Weight in Water: +/- 1.5kg

Mechanical O.D: +/-112mm Length: +/-200mm Material: 6061-T6 Hard Chromic Anodised Black

Viewing Window: Toughened CR30 Operating Voltage: 16 to 32Vdc

Flash Interface: TTL Hot shoe adaptor to MCIL-5f External Stills Connector: Comms and Power MCIL-6F MCBH-8M and MCBH-4F



# **HDD Camera Pin Outs**

- 1 Screen
- 2 Video
- 3 RS485
- 4 RS485
- 5 0Vdc Supply
- 6 24Vdc Supply
- 7 Video +
- 8 Video -

## Strobe Camera Pin Outs

- 1 Trigger
- 2 Detect
- 3 Ready
- 4 Ouench
- 5 0Vdc

#### SDD or Stills Camera Pin Outs

- 1 Screen
- 2 Video
- 3 +RS485
- 4 RS485
- 5 0Vdc Supply
- 6 24Vdc Supply

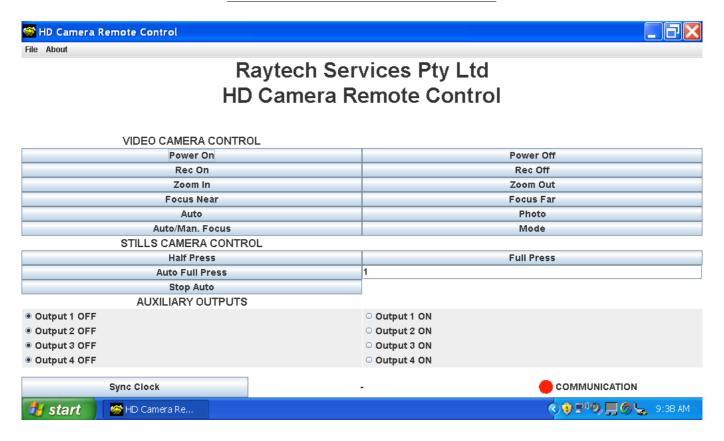
# **Electronic Interface Specifications**

The interface electronics allows for the following:

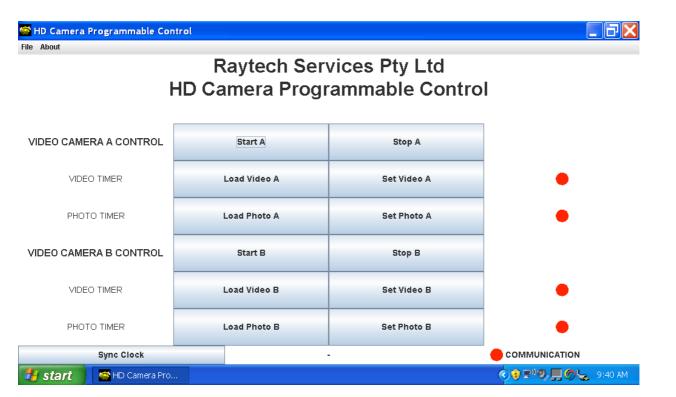
- Power supply for the camera set at 8.6Vdc.
- Composite video line driver relay video up 1500m COAX max. (Remote View Finder)
- Second video interface for twisted pair cable.
- Control of camera shooting "Half Press" and "Full Press".
- Time interval shooting. From 0.5 TO 60 Seconds.
- Programmable power and sequence shooting for stand alone applications.
- 4 x usable programmable dry relay outputs.
- Interface between hot shoe and strobe.
- LANC or RS232 output interfaces.
- RS485 Communication up to 1500m twisted pair.
- Overvoltage protection and reset-able fuses on video and Communication lines.
- Firm and software can be configured for specialised or customer requirement.
- Networking of multiple units on single communication line up to 24 units.



## HD CAMERA PC CONTROL PANEL



#### HD CAMERA PC CONTROL PANEL FOR REMOTE AND NETWORKING





#### HDR CX12 SPECIFICATIONS

Effective Video Resolution: 3.81 megapixels
Camcorder sensor Resolution 5.66 megapixels

Digital Zoom: 150 x

Effective Photo Resolution: 5.08 megapixels

Camcorder Interpolated Photo Resolution: 10.2 megapixels
Total Pixels: 5.6 megapixels

Camcorder Media: Type Flash card Pro DUO

Optical Sensor Size; 1/3"

Optical Sensor Type: ClearVid CMOS

Min Illumination: 0 lux

Digital Video Format:

Special Effects:

Image Stabilizer:

MPEG-2,AVCHD

Monotone, Sepia, Pastel

Optical (Super Steady Shot)

Digital Scene Transition

White fader, Black fader

Min Shutter: Speed 1/30 sec
Max Shutter: Speed 1/250 sec
Shooting modes: Digital photo mode

Shooting Programs: Candle, Beach, Sports lesson, Sunset, Spotlight,

Fireworks, Sunrise, Portrait mode, Landscape

White Balance:
White Balance:
Presets
Presets Outdoor, Indoor
Exposure Modes:
Program, Automatic

Exposure Metering: Spot

Camera Flash: Built-in flash and Hotshoe

Image Recording: Format JPEG
Flash Modes: Auto mode

Widescreen Video Capture; Yes

AV Interfaces: S-Video, HDMI, Composite video/audio

Lens System:

Type Carl Zeiss 12 x x Zoom lens - 5.9 mm - 58.8 mm - F/1.8-3.1

Lens aperture: F/1.8-3.1

Features: Built-in lens shield

Optical: Zoom 12 x Lens system type Zoom lens

Min focal length 5.9 mm Max focal length 58.8 mm TTL contrast detection

Auto Focus: TTL contrast detecti

Filter: Size 37 mm

Focus Adjustment Manual, Automatic

Macro Focus Range: 47 cm (Tele-macro)

Zoom: Adjustment Motorized drive



Additional Features: Low Lux / Night Mode Yes, Additional Features Progressive shutter system, Accessories hot shoe, Backlight compensation, Touch-screen control, Dynamic Range Optimizer, Takes photos while movie recording, PictBridge support, Smile Detection technology, USB 2.0 compatibility, Dolby Digital 5.1 channel recording Remote control Remote control, Infrared Software Drivers & Utilities, Component video cable, Docking station, USB cable, Power adapter, Audio / video cable. Viewfinder: Viewfinder Type Electronic Viewfinder Resolution 123,000 pixels Image Aspect Ratio 16:9 Type 2.7 in LCD display Display: Connector Type 1 x Composite video/audio output, Connections: 1 x USB, 1 x Component video output, 1 x HDMI output, 1 x S-Video output. 1 x Headphones Microphone: Microphone Features Zoom Memory / Storage: Media type Flash card Memory Card Slot Memory Stick PRO Duo card System Requirements for PC Connection: Operating System Support MS Windows Vista, MS Windows 2000 Professional, MS Windows XP Professional. MS Windows 7 MS Windows 8 Peripheral Devices USB port, Supported Battery Sony NP-FH60 Battery: Audio input type Microphone Audio Input: Microphone type Built-in Microphone Operation Mode Surround Microphone technology Electret condenser

Display Features Rotating Resolution 211,200 pixels

Viewfinder / Display: