

VSPN 3003 HIGH RESOLUTION, COLOUR, DIGITAL STILL CAMERA



GENERAL DESCRIPTION

Oceanscan Limited and ECA Hytec, who for 20 years have pioneered subsea imaging, have developed the latest underwater video systems for the offshore oil and gas, defence and scientific markets. With the introduction of the VSPN 3003 High Resolution, Colour, Digital Still Camera, Oceanscan and ECA Hytec bring to the marketplace the latest innovation in underwater imaging, transmission and remote technology which is fully compatible with existing camera installations. The VSPN 3003 offers unparalleled performance together with the industry's second-to-none, worldwide technical support.

The VSPN 3003 uses a vehicle's transmission system. It combines the functions of a colour video camera with those of a high resolution (7Mp) camera, has a x3 optical zoom and is operated via user-friendly software. A connector on the camera provides power and a synchronised signal for the flash unit.

The surface operator receives video images on a PC in real time and selects the images required to be captured as still photographs which are stored in the camera's built-in memory. When the operation is over and the camera is back to the surface, images are downloaded to the PC. The very high resolution of the images allows a strong zoom-in facility. Images can then be transferred directly to an inspection report, transmitted via the internet or filed on a CDROM.



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VSPN 3003

HIGH RESOLUTION, COLOUR, DIGITAL STILL CAMERA

TECHNICAL SPECIFICATIONS

VSPN 3003

3000 METER RATING, HIGH RESOLUTION COLOUR DIGITAL STILL CAMERA

Sensor and Optics

CCD : 7.2 (effective) Mpixels

Strobe synchronisation : External sync signal provided for strobe operation

Lens : Motorised zoom (8 to 24mm) equivalent to 38-114 when converted to a 35mm still camera
Auto focus
Digital zoom (x2)
Macro Mode

Diagonal angle of view (in water) : from 43° (wideangle) to 16° (zoom max)

White balance : Auto and manual (5 modes including strobe mode)

Shutter speed : Adjustable from 2s to 1/2000s

Video and recording system

Recording Capacity :

| Image format (pixels) | No of images recorded (jpg mode) |
|-----------------------|----------------------------------|
| 7Mp | 279 |
| 5Mp | 384 |
| 3Mp | 617 |

Flash/Strobe Unit

- OD 86 mm ; L 145 mm
- Four levels of energy, adjustable by surface operator
- Flash duration : 1 ms
- Recycle time : 3 seconds
- Anodized aluminium housing
- Depth rating : 3000 metres

Also available in stainless steel version

Analogic video output : 1 Vpp, 75 ohms in real time
Digital video output : through USB port

Telemetry:

- Options to transit analogic or digital video through coaxial, twisted pair or fibre optic cable (contact us for more details)
- Remote control of all camera functions (zoom, shutter, record, etc) through RS232 link.

Mechanical and environmental

Dimensions : 260mm length

: 100mm outside diameter

Weight : 6.3kgs (in air); 4.8kg (in water)

Connector : MCBH-12M

Depth Rating : 3000 metres standard (6000 metres optional)

Operating Temperature : 0°C to 40° C

Storage Temperature : -20°C to 60° C

Material : 316 L stainless steel housing (Titanium optional)
- Tempered glass frontal porthole

Software and host system requirement

Software : Photosuite 8.06
: Videowave SE
: USB driver

: Digi Cam 1.01
: Cmd Cam 1.02

Host System : PC or compatible, 600 MHz
: 64 Mb RAM

Operating System : Windows 98 or later



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