

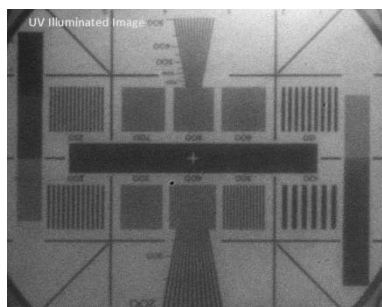
MULTI- SPECTRAL iCMOS FAST GATED CAMERA

DEFENCE VISION SYSTEMS (DVS) LTD
AUGUST 2019



Available in Hi-QE wavelengths
from UV to Enhance red.

UV illuminated image using the Hi-QE Blue camera



- Hi-QE UV
- Hi-QE Blue
- Hi-QE Green
- Hi-QE Red
- SolarBlind
- S20
- S20UV
- HotS20
- Broadband
- S25

Customer to specify wavelength at time of order

Application: The camera is designed to be integrated with a pulsed laser, gating control and suitable lens.

- ❖ **Gated Laser Viewing**
 - **Ground to Ground**
 - **Air to Ground**
 - **Underwater**
- ❖ **Scientific, for integration into larger experimental systems.**

Available in module form for ease of integration.

The camera provides outstanding performance for use in variety of applications. The camera is optimised for use with pulsed lasers and is designed for integration into applications for **Gate Laser Viewing systems.**

The camera is a compact, lightweight, low power device especially suited for integration into larger systems, where a high-performance camera is required.

Combination of modern, high-resolution CMOS sensor and the latest 4G, Hi-QE sensitive intensifier, provides the optimum performance when combined with a pulsed laser.

Ideal for underwater and ground applications;

when used in conjunction with a suitable UV or blue, pulsed laser, it is capable of providing;

1. Underwater in conditions of high water turbidity upto 6 attenuation vision lengths.
2. In fog conditions it is capable of providing upto 50 attenuation vision lengths.

Camera Data:

CAMERA

Sensor type	CMOS (NSC1105)
Resolution	1280 x 1024 pixels
Readout mode	Rolling shutter
Frame rate	Up to 60 frames/s
Data output	USB3.0 or Camera Link, 14-bits
Dynamic range	>140 dB
Power supply	5 V DC
Power consumption	<0.5 W
Lens fitting	C-mount (custom fittings on request)
Size	L: 110 mm H: 50 mm W: 50 mm
Mass	<550 g

INTENSIFIER

Type	4G
Size	18 mm
Photocathode	Enhanced UV response
Phosphor	P43 (also available in P22 and P45)
Gating	Upto 30KHz repetition rate

DVS offers this versatile camera for applications requiring fast gating and the wavelength can be selected from those outlined in the chart below.

