INFRARED FLASHLIGHTS

- Increases viewing range in extremely dark conditions
- Smooth power adjustment
- Variable beam
- Adjustable IR spot position
- Attachment on any NV devices with a Weaver rail or ¼ inch tripod
- Laser safety Class 1 – Eyesafe (models L-808 / L-915)
- Low battery indicator
- Invisible to the unaided human eye (915 & 940 nm models)
- Compact and lightweight

PULSAR - 805 IR FLASHLIGHT
Weaver rail mountable to fit all Pulsar designs - the 805 IR features focusable beam, adjustable collimation and smooth brightness control.

PULSAR L-808S LASER IR FLASHLIGHT
Similar in mechanical system to the 805 model, the L-808S is a first step in developing line of the Pulsar's eyesafe laser IR flashlights. With an emission power considerably higher than that of the LED design – the L-808S is one of the most powerful IR flashlights in the market today. It provides greater viewing distance when used with analogue (image intensifier tube based) and digital night vision devices.

PULSAR - 940 IR FLASHLIGHT
PULSAR L-915 LASER IR FLASHLIGHT
Operate in the covert IR range, invisible to the unaided human eye. Recommended for use with digital NV systems.

PULSAR - X850 IR FLASHLIGHT
The most powerful Pulsar IR illuminator.

VIDEO RECORDER

NEWTON CVR640

The video recorder NEWTON CVR640 is a compact device for video recording of a signal coming from the CCD array of night vision devices or thermal imaging scopes. The NEWTON CVR640 can be used with any digital observations device Yukon, Pulsar or Newton equipped with a video output.

BASIC FEATURES:
- Recording parameters – 640x480 pix @ 25 fps
- SD Memory card
- Operating voltage 4.5 V (3xAAA)
- Continuous operation on a battery set – 6 hours
- MiniUSB port for the direct signal transmission to PC, and for reading-out recorded information
- Compact dimensions, lightweight

NEWTON sports optics

EXTERNAL POWER SUPPLIES

EPS3 / EPS5

External power supplies are designed for the use with digital units and NV riflescopes, thermal imaging scopes. They feature greater capacity as compared to regular batteries which increases operation time of digital NV units and thermal imaging scopes several times. The EPS3 (2.4Ah) has a rigid plastic case and can be installed on any devices outfitted with a Weaver rail or ¼ tripod mount. The EPS5 (5Ah) is outfitted with a one meter cable which allows it to be placed underwear in freezing conditions and to prolong operation time (EPS3 unit is supplied with a extension cable).

SPECIFICATIONS

MODEL	79111	79112
Product name	**EPS3**	**EPS5**
Battery type	Li-Pol	Li-Pol
Rated capacity (Ampere-hour rating), Ah	2.4	5
Nominal voltage, V	12	12
Voltage at end of discharge, V	8.9	8.9
Charging voltage, V	12.3	12.6
Full charge time, hour	2	4
Full discharge time (I=250 mA), hour	9	20
Degree of protection (acc. to IEC60529), IP rating	IPX5	IPX3
Mount type	Weaver	-
Length, mm	85x76x40	106x75x20
Weight, kg	0.23	0.35

SPECIFICATIONS

MODEL	79071	79074	79076	79072	79075
Product name	**Pulsar - 805**	**Pulsar - X850**	**Pulsar - 940**	**Pulsar L-808S**	**Pulsar L-915**
Emitter	LED	LED	LED	Laser Diode	Laser Diode
Lens diameter, mm	24	35	24	22	22
Range of power adjustment (min ... max), mW	30 ... 200	50 ... 350	30 ... 200	125 ... 250	125 ... 250
Wavelength, nm	805	850	940	780	915
Range of beam divergence, degree	6 ... 10	3 ... 9.5	4 ... 9.5	3.5 ... 6	4 ... 7
Power supply, V	3 (2xAA)	3 (2xAA)	3 (2xAA)	3 (2xAA)	3 (2xAA)
Average operation time with one set of batteries, hour	2	2	2	9	5
Operating temperature, °C	-20 ... +40	-20 ... +40	-20 ... +40	-20 ... +40	-20 ... +40
Dimensions, mm	132x45x52	152x45x52	132x45x52	140x45x52	140x45x52
Weight (without/with batteries), g	140/190	175/220	140/190	160/210	160/210
Recommended for	All NV Devices	All NV Devices	Digital NV	All NV Devices	Digital NV

GENERATION DIGITAL

Employment of digital technologies is one of the top priorities for the development of night vision (NV) devices by Yukon Advanced Optics Worldwide. Digital devices possess certain unbeatable advantages and extended functionality which lets them find applications not only in the hunting market, but also in wildlife observation, law enforcement and security markets:

Protection against bright light sources
Digital NV devices can be turned on in daylight without the fear of being damaged either immediately or in the long term. They are not damaged by car headlights or street lighting.

Long-life performance
Average life of a CCD array is 25000 hours, which is up to twice as much as the best image intensifier tubes.

Signal reception and transmission
Digital NV devices are well-suited for image recording with integrated or external recording equipment (via an AV Out).

Effective use with "invisible" IR Illuminators
As opposed to image intensifier tube based devices, digital NV equipment features advanced efficiency when used with IR illuminators operating higher up the near infrared spectrum (more than 900nm), which are generally invisible to the naked eye.

PULSAR

N750A | N750UA | N770A | N770UA

DIGISIGHT FORWARD

DFA75

PULSAR

http://www.pulsar-nv.com

DIGITAL RIFLESCOPES & NV ATTACHMENTS

DIGISIGHT N750A | N770A

DIGITAL NV RIFLESCOPE

- Great image quality and resolution
- Large caliber shockproof
- Built-in Laser IR illuminator with three-step power adjustment
- High resolution OLED / LCD display
- Wide choice of selectable integrated reticles
- Long eye relief (67 mm)
- 1.5x zoom
- Wide range of operating temperature
- Built-in & external power supply options
- Wireless remote control
- Water - and dust resistant
- Additional Weaver MIL-STD-1913 rail for accessories
- Video output
- Composite housing

BUILT-IN IR ILLUMINATOR

The Digisight N750A / N770A riflescopes are outfitted with built-in IR Laser Illuminators (780 nm and 915 nm respectively). The 780nm IR provides effective observation of remote objects, the 915nm model operates in the invisible range. Both Illuminators comply with Class 1 laser safety featuring three-step power adjustment.

SELECTABLE RETICLE

A reticle is electronically displayed on the screen and is permanently located in the plane of target image. The Digisight's internal memory contains a large number of reticles of various shapes and applications. The central part of the reticles is illuminated, color can be changed from red to green. The color of the main part can be switched from black to white. The software allows the user to save in riflescope's memory three points of impact for three various distances (types of weapon or cartridges), and each option allows the use of a dedicated reticle. The horizontal and vertical numeric coordinates of the reticle position facilitates windage/elevation adjustments and completes memorization function.

IMAGE SET-UP OPTIONS

Fast set-up options – Contrast and SumLight™ allow for rapid contrast gain and activation of CCD sensitivity enhancement. Also, there are modes for fine tuning of brightness and contrast.

RIFLE MOUNT

The mounting holes in the base of the riflescope enable the mount to be installed in one of multiple positions. This choice (depending on the rifle type, anthropometric data of a shooter, etc.) helps the user to ensure the most suitable position on a riflescope.

LONG EYE RELIEF

The Digisight riflescopes feature a 67 mm eye relief – one of the best parameters in its class.

SPECIFICATIONS

MODEL	76312A	76315A	76317A	76318A
Product name	**Digisight N750A**	**Digisight N770A**	**Digisight N750UA**	**Digisight N770UA**
Generation	Digital	Digital	Digital	Digital
Magnification, x	4.5	4.5	4.5	4.5
Digital zoom, x	1.5	1.5	1.5	1.5
Objective lens diameter, mm	50	50	50	50
Display type	OLED	OLED	LCD	LCD
Eye relief, mm	67	67	67	67
Built-in IR flashlight, type	Laser	Laser	Laser	Laser
Wavelength of built-in IR flashlight, nm	780	915	780	915
Resolution, lines per mm	55	55	55	55
Max. detection range, m *	600	450	600	450
Power Supply, V	6 (4*AA)	6 (4*AA)	6 (4*AA)	6 (4*AA)
Operating time (without/with IR) with one battery set, hour	4 / 3.5	4 / 3.5	4 / 3.5	4 / 3.5
External power supply, V	DC 9... 5	DC 9...15	DC 9...15	DC 9...15
Supply voltage, V	3	3	3	3
Water intrusion rating (IEC 60529)	IP44	IP44	IP44	IP44
Operating temperature, °C	-25...+50	-25...+50	-10...+50	-10...+50

* - in normal nighttime conditions - 0.05 lux (quarter moon)

VIDEO OUT

The Digisight/Forward are equipped with a Video Out jack enabling real time video recording with the use of external recording equipment.

EXTERNAL POWER SUPPLY

Operating time can be significantly prolonged thanks to the use of high-capacity external power supply units attached to the Digisight / Forward via an External Power jack. During extended use in freezing weather, the external power supply units can be stored under the operator's clothes via an included extension lead.

WIRELESS REMOTE CONTROL

The wireless remote control allows basic operations to be fulfilled without resorting to standard controls.

WIDE OPERATING TEMPERATURE RANGE

Ability to operate in normal mode at sub-zero temperatures is due to the use of a frost-resistant OLED display featuring fast response and provides crisp image when observing dynamic object.

USER INTERFACE

Current information about the status of the device, depicted in the form of blue icons and numbers, is located on the data panel in the lower portion of the screen, and does not interfere with the image observed. When switching between various functions, the respective large sized icon appears in the right portion of the screen.

FORWARD DFA

DIGITAL NV ATTACHMENT

- Easy conversion of a day optical sight into a night riflescope
- POI stability after attaching in front of the riflescope
- Quick mounting and adjustment
- Suitable for use with the majority of daylight sights with 42, 50 & 56 mm lens diameters
- Large caliber shockproof
- Long viewing range
- High resolution
- Attachable invisible laser IR illuminator
- Wide range of operating temperature (-25 ... +50°C)
- Wireless remote control
- Self-contained & external power supply options
- Lightweight

BUILT-IN IR ILLUMINATOR

Night vision attachments Forward DFA75 are supplied with a removable laser IR Illuminator operating in the "invisible" range (915nm). The 915nm laser IR Illuminator complies with Class 1 laser safety, features focusable IR beam from spot to flood, three-step power adjustment.

FORWARD DFA AS NV ATTACHMENT

To install the Forward DFA75 onto the front optical bell of a day telescopic sight, specially designed mounting assemblies (bought separately) are used. The assemblies are the adapters with various diameters with a set of reducing rings (the rings can be used as necessary depending on the diameter of the optical bell). The adapter is permanently attached to the optical bell of a telescopic sight. This allows the Forward DFA attachment to be quickly installed in front of the lens for nighttime shooting. When the attachment is not used, the adapter accommodates a protective cap that covers the lens of an optical sight in the daytime.

Available mounting assemblies are:
#79121 **42 mm Cover Ring Adapter** (plastic),
#79122 **50 mm Cover Ring Adapter** (plastic),
#79123 **56 mm Cover Ring Adapter** (plastic),
#79124 **DN 42 mm Cover Ring Adapter** (metal),
#79122 **DN 50 mm Cover Ring Adapter** (metal),
#79123 **DN 56 mm Cover Ring Adapter** (metal).

SPECIFICATIONS

MODEL	78111
Product name	**Forward DFA75**
Generation	Digital
Magnification, x	1
Display type	OLED
Objective lens diameter, mm	50
Resolution, lines per mm	50
Built-in IR flashlight, type	Laser
Wavelength of built-in IR flashlight, nm	915
Operating voltage, V	3.7 ... 6 (4*AA)
Operating time with one battery set, hour, not less than	3
External power supply, V	DC 9 ... 15
Consumption power, W	3
Operating temperature, °C	-20 ... +50