



### General – what is PRO RAPTOR?

- PRO RAPTOR is a purpose-built underwater housing for RED V-RAPTOR (a.k.a. DSMC3). This means useful, intimate new features that blur the lines between housing and camera. And available only in Gates PRO RAPTOR.

### What are the Key Features of PRO RAPTOR?

- **Flexible, Adaptable.** PRO RAPTOR is a chameleon, suitable for practically any shooting situation. Natural history, TV, commercial, cinema, research, military, survey, and more. Whatever your application, PRO RAPTOR will assist.
- **Absolute camera control.** Full camera side-menu access plus direct user-assignable Gates Command / Control module are standard on PRO RAPTOR.
- **Optimal size for both travel and in water stability.** PRO RAPTOR is designed to meet the demands of Natural History world travelers and Cinema / TV professionals.
- **“Cable-less” RT73 External Monitor.** Bright 7” LCD with no external housing-to-LCD cable. The RED USB-C LCD cable passes through a sealed tilt / swivel mount, and is user-replaceable.
- **Directed Cooling.** An internal fan keeps RAPTOR camera happy. It is also forward-facing, circulating air through the port area to eliminate dome fogging.
- **Extensive lens support.** No other housing comes close to the range of lens support offered by Gates. RF / EF / PL / LPL and more are entirely usable in PRO RAPTOR with 6, 8 and 11in / (152 / 203 / 280mm) Stackable Port Rings and 6, 8, 10 and 12 in (152 / 203 / 254 / 305mm) Glass Dome Ports.
- **Seal Check Lite *Rechargeable*.** Gates introduced Seal Check in 2008, providing integrity certainty, the ultimate in reliability. “Know before you go” is now rechargeable using 2x 18650 batteries for super long life.
- **Fan on / off switch.** Quiet on Set! PRO RAPTOR cooling fan can be turned off when needed.
- **Remote record trigger input.** Another Gates first: standardized 3.5mm receptacle for remote record trigger applications.
- **One size does not fit all.** Configure PRO RAPTOR just the way you want with a variety of standard accessories. Need something special, just for shooting style? Gates routinely customizes housings exactly the way you want.

### What RED cameras are supported?

- V-RAPTOR 8K VV
- V-RAPTOR 8K S35
- V-RAPTOR [X] 8K VV (Global Shutter)

### What is the benefit of the Gates Command / Control module?

- Rather than navigating through menu layers to access specific features, GCC provides **direct access** to a wide variety of RED camera functions (via RED Control Protocol 2) with a single button press. Just a few examples are frame rate, ISO, iris, white balance, edge peaking, false color, and menu overlay toggle. Presets are also assignable to a single GCC button, one of the most powerful features of the PRO RAPTOR + RED RAPTOR system.
- GCC is also **user-programmable**. All buttons can be assigned any supported RAPTOR camera function to suit your shooting style.

## What existing and / or legacy equipment is supported with PRO RAPTOR?

- **Dome Ports, Flat Ports and Stackable Port Rings.**
  - Dome Ports 6, 8 10 and 12 in (152 / 203 / 254 / 305mm)
  - Flat Port 6 / 8 / 10in (152 / 203 / 254mm)
  - SPR60, SPR80 and SPR110 series Stackable Port Rings
- **External Monitors.**
  - EM503 (SmallHD 50 Ultrabright)
  - EM5 ULTRA (SmallHD Ultra 5)
  - TVL55 (TV Logic VFM-058W)
  - EM7 CINE (SmallHD Cine 7)
  - ST5 (Transvideo Starlite)
  - EM NVS (Shinobi SDI & Ninja V)

## What accessory options are available?

- A **wide variety of accessories** are available, tailoring PRO RAPTOR to suit virtually any application.
  - **Surface tethers** to support 4 functions:
    - Lens control
    - SDI video feed
    - Camera control (RED CONOTROL App)
    - Power
  - **Shell Extensions** make extra space for large capacity V-Lock batteries or whatever is needed for specialized applications.
  - **SDI External Monitors.** EM5 ULTRA, EM7 CINE and other Gates SDI External Monitors are optionally compatible, and can be setup as second monitors on PRO RAPTOR for camera operators and focus pullers.
  - **Macro Lens Adapter and Periprobe Adapters** for LAOWA Macro Probe and PeriProbe Lenses.
  - **Nikonos RS Adapter.** Forthcoming after initial launch, PRO RAPTOR will support Nikonos RS glass, which remain the finest designed underwater 'wet' lenses.
  - **Travel Case.** Gates can package the entire PRO RAPTOR kit into hard sided Pelican cases.
  - **Knob Extensions.** Provide and extended, tactile finger grip for finer lens control.
  - **Water Alarm.** For an added layer of warning beyond Seal Check.
  - **Customization.** Gates routinely customizes housings for unique applications or special shooting style.

## What's included with PRO RAPTOR?

- **PRO RAPTOR Housing**
- **Gates Command / Control Module**
- **Port Base** of choice:
  - 60-series. Very compact, travelable. Designed for diver operation of RF and EF mount lenses that provide thru-camera control of iris.
  - 80-series. Designed for diver operation of larger cinema-caliber lenses. Cinema, TV, drama.
  - 110-series. Specifically for remote surface LCS, provides space around lenses for lens motors.
- **Seal Check Lite Rechargeable**
- **Tool kit / Spare kit**
- **Lens Gear Drive Kit**
- **Trim weights / Trim Floats**
- **Carry Lanyard**

### What's also required for PRO RAPTOR but application specific, and purchased separately?

- **External Monitor**
  - Recommended: RT37 for DSCM3 RED TOUCH 7.0
  - EM7 CINE for SmallHD Cine 7
  - EM5 ULTRA for SmallHD Ultra 5
- **Port Rings**
  - 60, 80 and 110 series Stackable Port Rings to match your selected Port Base.
  - SPR Expanders and SPR Reducers can be optionally employed to mix / match SPR's as needed.
- **Port and / or Port Adapter**
  - Dome Port in 6, 8, 10 and 12in (152/203/254/305mm) AR coated glass. 8in acrylic dome optionally available.
  - Flat Port in 6 / 8 / 10in (152 / 203 / 254mm) AR coated glass or acrylic.
  - Macro Lens Adapter (MLA) or Periprobe Lens Adapter (PLA) for LOAWA Macro Probe and PeriProbe lenses, respectively
  - Nikonos RS adapter. Forthcoming after PRO RAPTOR launch.

### What camera equipment is required / supported?

- **Camera** (Camera only, stripped down. No accessories / filters.)
  - V-RAPTOR 8K VV
  - V-RAPTOR 8K S35
  - V-RAPTOR [X] 8K VV
- **LCD .**
  - **Recommended:** DSCM3 RED TOUCH 7.0 with Gates EM RT73 External Monitor
  - SmallHD Cine 7 with Gates EM7 CINE External Monitor
  - SmallHD Ultra 5 with Gates EM 5ULTRA External Monitor
- **Recording Media.**
- **Lens of Choice.** RF / EF / PL / LPL and others supported.
- **Compatible Micro V-Lock OR legacy V-Lock battery**
  - **Micro V-Lock.** At this writing, PRO RAPTOR accommodates all Micro V-Lock batteries currently on the market (see list below)
  - **Legacy V-Lock.** Larger, legacy V-Lock types are also supported, and require two items:
    - Micro V-Lock to V-Lock adapter like [RED Tactical Top Plate / Battery Adapter](#)
    - PRO RAPTOR shell extension. (PN 0255-10-519)

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## ▪ Compatible Micro V-Lock Batteries

- RED
  - [REDOVOLT 98 WHr](#)
- CORE SWX
  - [Nano 98 WHr](#)
  - [Nano 150 WHr](#)
- bebob
  - [V98MICRO](#)
  - [V150MICRO](#)
- SWIT
  - [MINO-S70](#)
  - [MINO-S140](#)
  - [MINO-S210](#)
- IDX
  - [Imicro-98](#)
  - [Imicro-150](#)
- Hawkwoods
  - [VL-M98](#)
  - [VL-M150](#)

## ▪ Compatible V-Lock Batteries

- RED
  - [RED BRICK](#)
- CORE SWX
  - [HYPERCORE NEO](#), [HELIX](#) Series
- BLUESHAPE
  - All [GRANITE](#) and [GRANITE TWO](#) Streamlined, Medium and Big
  - All [GRANITE MINI](#)
- SWIT
  - [8192S](#), [8183S](#), [8113S](#), [8083S](#)
- IDX
  - [DUO Series](#), ENDURA ELITE, E-HL9, E-HL95, E-75
- bebob
  - [V98 / V150 / V200](#)
- PAG
  - [9307V](#), [9304](#), [9303](#), [9308](#), [9309](#)
- Hawkwoods
  - [VL-95N](#)
  - [VL-350N](#)