

New SatRack™

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About SatRack

First introduced over 10 years ago, SatRack has been the 'go to' ruggedised 19-inch rack solution for flyaway ENG (electronic news gatherers) systems and broadcasters worldwide.

SatRack is unique, originally designed to achieve super-lightweight solutions for portable satellite equipment, and available in full 19-inch and half rack sizes. Conforming to IATA guidelines for checked-in baggage, ideal for applications requiring rugged, highly portable, rack-mounted equipment.

SatRack integrates several CP manufacturing processes in one product:

- floating rigid Vulcan CV2 19-inch shock-mounted chassis with options on elastomeric anti-vibration systems
- thermo-formed honeycomb polypropylene hard shell body
- closed cell PE foam wrap for comfort under a rugged textile abrasion-resistant outer cover
- a choice of handles, wheels, branding, labelling, colours and much more – all to the customer's request.



Watch a 2 minute video introduction to SatRack here



Important SatRack Facts

The Vulcan CV2 chassis

- meets International Standards including:
 - European IEC 60297-3-100
 - DIN 41494
 - USA EIA 310-D
 - CEA 31-E
- Is constructed from hollow section interlocking extrusions providing exceptional strength to weight ratios and resistance against torsional twist



- 40mm sway space between chassis and body provides increased excursion for better shock protection
- Rack body is manufactured from crush-proof HPP (honeycomb polypropylene) using advanced thermo-forming technologies which retain the integrity of the honeycomb section (post forming) to give additional longitudinal strength and rigidity
- Rack body construction utilises mortice and tenon riveted joints giving high static load bearing characteristics and enhanced rigidity against twist
- The completed HPP bodyshell is encased in 3mm HDPE foam, for additional insulation and cushioning to create a 'carry-friendly' piece of ruggedised luggage. HDPE foam is closed cell, alkaline and oil resistant and impervious to the elements.
- Payload weights to 35kg can be accommodated
- The rugged textile outer cover is made from 1000 denier texturised nylon, weatherproof and abrasion-resistant, does not rot, and is in daily use by military forces worldwide
- Fully-protected zipped lids at front and rear can be hinged through 270 degrees to lie flat on the rack body and allow full access to equipment.

Customisation Options

• Chassis Options

- U heights >8U can be accommodated subject to payload weights
- Chassis depths >740mm are available subject to payload weight and U height requirements
- 19-inch full rack
- Half rack available
- Support rails and full width shelves
- Slide out chassis systems (EZG3)
- Telescopic rails (POA)
- Fully customised 'made to measure' chassis to accommodate microwave amps, data servers, encryption equipment, modems and other non-standard rack-mount equipment.

• Anti-vibration and equipment suspension systems with options on elastomeric shore hardnesses

- **Backpack systems** available to suit all types of payload weights and deployment applications
- **Branding** – heat transfer technology provides multiple colour and high definition images
- **Dry Bag option** – provides climate protection to IP66
- **EZG3 slide-out chassis option** allowing the chassis to be quickly and completely removed, no special tools required
- **Grounding connection** using an M6 SS nutsert and thumbscrew
- **Handle options** available including retractable, off-centre, extended to accommodate non-centric CoG loads, 2 man lift systems
- **Label and document holders** – non-standard sizes available with label position options

• Low profile Edge Wheel system

- using high performance 70mm diameter rollerblade wheels
- **Molle webbing patch** option available
- **Payload weights** – to 35kg can be accommodated
- **Protective skirts** to prevent ingress of dust, dirt and water
- **SatRacks are stackable** to a static loading weight of 100kg
- **Shoulder straps**, customised 'Man Pack' systems and other ergonomic handling options
- **Stacked SatRacks can be interlocked** to ensure the combined stack is secure against dislodging
- **Textiles** – a wide variety of stocked colours, including camo
- **Zippered lids** that can either be removed completely or folded back through 270 degrees to lie flat



Edge Wheels and retractable handles



Camera rain cover and shoulder straps
cpcases.com/products/19-racks/satrack



e2v Stella 180 Watt Amp in custom chassis



CV2 chassis showing construction and joints and anti-vibration suspension mounts



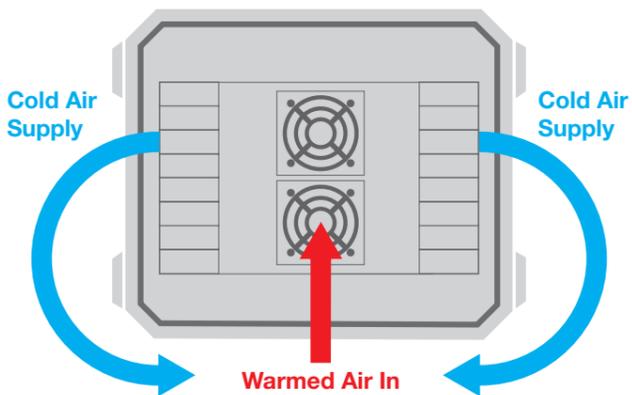
Custom branding and graphics application facilities



Interlocking feet and straps to secure stacking and a labelling option.

Climate Control

- Natural ventilation – with front and rear lid open at 270 degrees, the exposed 40mm air gap around the chassis allows good front to back ambient air flow
- Fan assisted cooling – various configurations and voltages available on request
- Thermoelectric (TEU) or Compressor-based A/C systems – available subject to SatRack U height
- Heating – can be combined with TEU A/C or provided using heater mats and controllers



Typical TEU setup looking towards air conditioning unit indicating cold and warm airflow

Certification and Accreditation

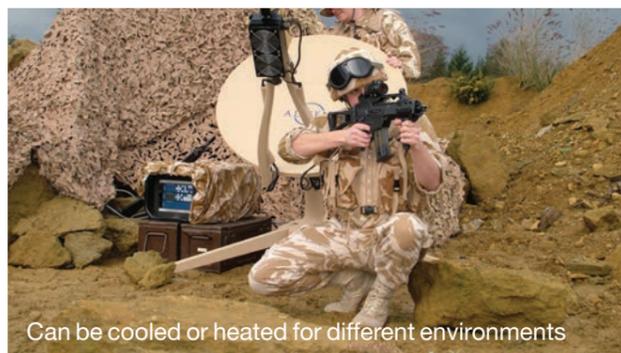
- Accredited and certified to MIL STD 810G
 - Shock (Method 555 Procedure 1)
 - Vibration (Method 516.7 Procedure 1)
 - Further MIL STD 810G tests planned in the near future
- IATA compliant for check-in luggage (subject to rack size and overall weight)
- IP certification planned in the near future



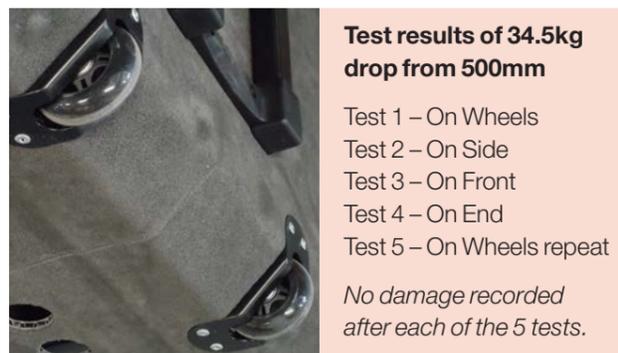
Temperature control unit



Drop testing



Can be cooled or heated for different environments



Test results of 34.5kg drop from 500mm

- Test 1 – On Wheels
- Test 2 – On Side
- Test 3 – On Front
- Test 4 – On End
- Test 5 – On Wheels repeat

No damage recorded after each of the 5 tests.

Size Range

The new SatRack size range has been considerably expanded in both U heights and chassis depth options, with the standard range covering 2U-8U heights and 4x chassis depths from 350mm to 740mm. In addition to the standard range we offer fully customised SatRacks, such as non-standard chassis depths and widths and a wide range of textile colours. We tailor make specific requirements and applications, whether they be Broadcast, Military, Telecoms, Servers & Networking Hardware, Audio Visual, Scientific, Oil & Gas, Chemical or Pharmaceutical. NSN codes are available on request.

Part No.	U Height	CV2 Depth mm	Full/Half Rack	Height mm	Depth mm	Width mm	Weight kg	Volume m³
SR0235	2	350	Full Rack	240	480	600	6.7	0.07
SR0248	2	480	Full Rack	240	610	600	7.3	0.09
SR0261	2	610	Full Rack	240	740	600	7.9	0.11
SR0274	2	740	Full Rack	240	870	600	8.7	0.13
SR0335	3	350	Full Rack	285	480	600	7.3	0.07
SR0348	3	480	Full Rack	285	610	600	7.9	0.10
SR0361	3	610	Full Rack	285	740	600	8.5	0.13
SR0374	3	740	Full Rack	285	870	600	9.1	0.15
SR0435	4	350	Full Rack	329	480	600	8	0.09
SR0448	4	480	Full Rack	329	610	600	8.6	0.12
SR0461	4	610	Full Rack	329	740	600	9.2	0.15
SR0474	4	740	Full Rack	329	870	600	9.8	0.17
SR0535	5	350	Full Rack	374	480	600	8.8	0.11
SR0548	5	480	Full Rack	374	610	600	9.4	0.14
SR0561	5	610	Full Rack	374	740	600	10	0.17
SR0574	5	740	Full Rack	374	870	600	10.6	0.20
SR0635	6	350	Full Rack	419	480	600	9.5	0.12
SR0648	6	480	Full Rack	419	610	600	10.1	0.15
SR0661	6	610	Full Rack	419	740	600	10.7	0.19
SR0674	6	740	Full Rack	419	870	600	11.3	0.22
SR0748	7	480	Full Rack	464	610	600	10.8	0.17
SR0761	7	610	Full Rack	464	740	600	11.4	0.21
SR0774	7	740	Full Rack	464	870	600	12	0.24
SR0848	8	480	Full Rack	509	610	600	11.5	0.19
SR0861	8	610	Full Rack	509	740	600	12.1	0.23
SR0874	8	740	Full Rack	509	870	600	12.7	0.27
SR0235HR	2	350	Half Rack	240	480	387	5.5	0.04
SR0248HR	2	480	Half Rack	240	610	387	6.1	0.06
SR0261HR	2	610	Half Rack	240	740	387	6.7	0.07
SR0335HR	3	350	Half Rack	285	480	387	5.9	0.05
SR0348HR	3	480	Half Rack	285	610	387	6.5	0.07
SR0361HR	3	610	Half Rack	285	740	387	7.1	0.08
SR0435HR	4	350	Half Rack	329	480	387	6.3	0.06
SR0448HR	4	480	Half Rack	329	610	387	6.9	0.08
SR0461HR	4	610	Half Rack	329	740	387	7.5	0.09
SR0535HR	5	350	Half Rack	374	480	387	6.7	0.07
SR0548HR	5	480	Half Rack	374	610	387	7.3	0.09
SR0561HR	5	610	Half Rack	374	740	387	8	0.11
SR0635HR	6	350	Half Rack	419	480	387	7.1	0.08
SR0648HR	6	480	Half Rack	419	610	387	7.7	0.10
SR0661HR	6	610	Half Rack	419	740	387	8.4	0.12

Customers and Applications

SatRacks are in daily use by Broadcast, Military and Commercial customers all over the world. They are found on the Military Front Line, on Oil Platforms, in Railway Monitoring Systems, in Secure Communications, in the Air, on the Sea, on top of mountains and in the desert.

Wherever 'Man Portable' equipment needs to travel, SatRack is the choice of the discerning professional. Its featherweight portability, the wide variety of carrying and handling options, the rugged construction and the ability to go as 'Check-in Baggage' differentiates SatRack from every other product available.

Our customer list is a 'Who's Who' of the World's Armed Forces, Broadcasters, Security Services, Oil & Gas Companies, Aerospace and many more.

Our customer list (extract)

CBS	Royal Opera House
BBC	Telespazio
Conmec AS	Danish Broadcast
UTX	Cobham TCS
TV2 Norway	Hitachi
CNN	Nederlands Theatre
SIS Live	Met Police
European Broadcast	Cisco Systems
MBDA	BAE Systems
Reuters	ELMA Asia Pacific
Swedish Armed Forces	BskyB
MER (Israel)	European Commission
QinetiQ	AWE Plc
Halliburton	Cable News Int
BT Global	Ericsson TV
Czech University	Antillion
NBC	Fujitsu



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