

Ranger 4 Features

Audio Sources

Mics 4 inputs with 48V phantom power
3 when phone interface is used
Normally supplied with 2 colour coded headsets and one cardioid microphone.

Phone Interface with clean feed.

Optional interfaces for

Telephone Balance Unit (TBU)

Mobile phone

Skype® and PC based messaging systems.

Laptop PC and optical mouse

Audio recording, playback and editing

software pre-installed

CD ripping and burning

Separate inputs and outputs for Skype®

Players/recorders

CD player – plays audio and MP3 CDs.

Player/recorder -Plays MP3 and WAV files.

Other combinations available which can be field retro-fitted.

Audio Outputs

Digital USB to laptop for recording or streaming

Analogue To solid state recorders (2 max)

Balanced XLR outputs for transmitter

Monitoring

Sources Main output

Pre-fade listen (PFL)

Off-Air via optional FM receiver

Operator Headphones

Active loudspeakers with muting

Guests 4 headphones max fed from main output

Separately controlled headphone amp

Cue Lights Internal mic live and cue lights

Optional 12V external lamps

Physical

Size (closed) 68cm x 56cm x 23cm

Weight 18kg (includes 2 headsets and mic)

Other options will increase the weight

The **Ranger 4** is the latest development in a proven range of suitcase studios that have been deployed on four continents. These earlier systems have been used in a wide range of roles including emergency broadcasting in India, Indonesia and the Philippines and by the BBC in Nepal.

The **Ranger 4** is packaged in a rugged wheeled suitcase that can be carried as ordinary airline baggage. It is a complete system supplied with everything needed to begin work immediately. It is fully wired and tested with the computer software already loaded and configured so operations can begin within minutes of arriving on site. All that is needed to get started is a source of mains power between 95V and 250V ac or a 12V battery (if the DC option is fitted).



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Disaster Response Systems

Timely information in the aftermath of a major disaster saves lives. Getting back on air within 72 hours is crucial. The Ranger studios enable you to get back on air immediately after a disaster. We offer a **complete disaster response studio system** with additional production equipment.

We work with disaster response consultants who can supply a fully packaged transmission system which together with the Ranger 4 provides an entire radio station.

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Randall Concepts Ltd.
RANGER 4



The instant studio for:
Disaster Response
Community Radio
Outside Broadcast
Schools & Colleges
Radio Training

Randall Concepts Ltd. RANGER 4

Features & Accessories

Off-Air Monitor

Optional FM receiver for off-air monitoring powered by the Ranger 4. The radio can be clipped to the open case.



Cue Lights

Optional external 12V cue lights powered from Ranger 4. The lights can be clipped to the open case or wall mounted.

The Ranger 4 can also control existing studio light systems.

Internal cue lights mounted in loudspeaker panel.



Work Lights

Optional work lights - set of two clip-on 12V LED lights powered from suitcase. Provides a self-contained system for working around the clock in an emergency situation.



Loudspeaker Monitoring

Good quality 2 x 8W loudspeakers provide plenty of volume driven by high quality class T amplifier. Fader switched speaker mute circuit.

Mains Input

Universal mains input - 95-250V, 50-60Hz for use almost anywhere in the world. Loop through outlet for external equipment.



Uses readily available computer style cables.

Storage Compartment

For headphones, mics, cables and accessories

12V DC Power

Large earth terminal.

DC input and output on 4 pole XLRs compatible with professional video equipment.

12V 2A dc output for additional equipment such as lights or a small transmitter.

Optional 12V inlet when inverter kit is fitted. Supplied with dc power cable with clips for car batteries or cigar lighter plug according to your requirements, inverter kit can be field retro-fitted.



Laptop

Good quality laptop running Windows 7 with recording, editing and playback automation software pre-installed. CD ripping and burning. Wi-Fi and shared drives setup for instant networking to other production computers.

Battery Charger

Charger for batteries used in portable recorders away from the case. Supplied with NiMH cells.



Phone Interfaces

An optional phone interface may be fitted to input channel 4 with Clean Feed. Choose from:

- BlueTooth® interface for cellphone
- Skype® or similar connection via laptop
- Adapter cable for Telephone Balance Unit (TBU)



Headphone Amplifier

Stereo amplifier for studio guests' headphones. Four ¼" and two 3.5mm sockets.

Mic & Headsets

Standard equipment includes one mic kit with cardioid capacitor mic and two colour coded Beyer DT297 headsets.

Additional headsets with blue or black colour coding are available.



Metal Chassis

The headsets and their connectors are colour coded to avoid confusion. The mixer faders and input sockets are coloured to match.

Rugged powder coat painted chassis with shock absorbing mounts to protect the equipment. Power supplies and other electronics are mounted on the underside

Customised Mixer

4 mono mic/line inputs with a compressor on each channel. Mic inputs all have 48V phantom power.

Mic inputs have fader switching to mute the speakers and operate cue lights.

One line input may be used for phone. Line inputs can be used for instruments. 2 full stereo channels and stereo Aux returns.

The metering shows correct digital and analogue levels according to the EBU standard. PFL on each channel.

Off-Air monitoring with optional receiver

CD Player

CD player chosen for ease of use. Plays Audio CDs and MP3 CD-Rs.

Other players and recorders can be fitted to your requirements, please discuss the possibilities if you need something different.

Each machine has an interface module mounted beneath the deck providing the necessary audio and power connections. These are easily replaced enabling the system to be updated in the field.

Player/Recorder

Zoom H2 Recorder can be used out of the case for interviews or as a backup recorder in case the laptop fails. Can also play back .WAV and .MP3 files. Only uses batteries when removed from case.



Alternative combination of Transcend MP860 or 870 as player/recorder with Zoom H1 for interviews.



1) Images of additional equipment may not be to the same scale as the main case.
2) Due to rapidly changing technology, we may need to substitute equivalent or improved equipment - if so we will inform you before we accept your order.

Power Input
The current depends on the supply voltage, how many accessories in use and on the load connected to the loop-through connector.

AC input 95V-250V 50-60Hz 2.5A max (max 6A via loop through connector)

DC input 12V 10A - optional internal inverter: Connector: 4 pole XLR male

Power Output for Accessories

AC output 5A max (via loop through connector)

DC outputs Accessories - 12V 2A - 4 pin XLR female
Cue lights - 12V 0.7A - 9 pin D sub female
Internal options - 12V 2A - Molex Mini-fit
Phone interface - 5V 0.7A - 8 pin DIN

Audio Output - Line-Up Levels
0dB on meters
Mix output (XLRs): 0dBu balanced
USB interface: -18dBFS
Low level output to recorders: -20dBu ground compensated

Cables & Extras

We can supply transmitter cables and additional equipment to tailor the system to your needs



Randall Concepts was formed by Charles Randall who has more than 30 years broadcast engineering experience in many countries. We specialise in portable studio equipment.



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