EXPLORER 1500
USER GUIDE
BW7640

EXPLORER 1500 BWL0355/1

355 Old Road
Clacton on Sea
Essex CO15 3RH UK

Tel: +44 (0)1255 422807
Fax: +44 (0)1255 436342

www.bowens.co.uk

BOWENS ®

the power behind the picture™

BOWENS ®

the power behind the picture™

Table Of Contents

Specifications

Battery Type	Maintenance free, non-spillable, sealed Lead Acid Battery
Number of Cells	6
Nominal Battery Cassette	12V
Nominal Battery Capacity	12AH
Maximum Charge Currents	Managed Charge Only - 3A Bulk Charge, 0.1A Float
Charger	Only use Bowens recommended charger
Typical Battery Charge Times	With supplied 2A Charger (BW-1227) - approx 5-6 hours With Optional Car Charger (BW-1245) - approx 5-6 hours
Battery Size	(L) 172mm x (W) 108mm x (H) 120mm
Battery Weight	4.6KG
Unit Size	(L) 270mm x (W) 180mm x (H) x 242mm (H = 281mm inc. handle)
Unit Weight	11.2KG (with battery) 6.6KG (without battery)
Fuses	3 x 30A, User replaceable, Automobile Type (ATO Fast Acting)
Power Source	Interchangable Battery Cassette (BW-7642)
Typical Flash Rate	50 @ max rate before thermal cut out
Recycle Time (on min power)	AUTO - 0.53 seconds SLOW - 0.67 seconds

Typical Flash Capacity

with flash heads direct to pack
130 @ 1500Ws

Single Gemini	1000 @ 190Ws	Dual Gemini
800 @ 250Ws		400 @ 250Ws
540 @ 375Ws		260 @ 375Ws
400 @ 500Ws		200 @ 500Ws
260 @ 750Ws		130 @ 750Ws

Items Supplied	1 x BW-3700 Explorer 1500 pack 1 x BW-7642 Battery Cassette 1 x BW-1227 Universal Mains 2A Battery Charger 1 x BW-1821 4m Sync. Lead 1 x BWL-0355 Operating Instructions 1 x Registration Card 1 x Operating Manual Additional items may be supplied for use in specific countries
Maximum Modelling Lamp (120V)	1 x 250W (one head) 2 x 100W (two heads)

Two auxiliary outlets, EXTENTION SOCKET 1 and EXTENTION SOCKET 2, are provided, purely to provide a charging source for up to two Gemini Monoblocs. One or two Gemini's can be used on their own or in conjunction with the normal flash heads. The major effect of using these outlets, in addition to the normal flash heads, is to slow down the overall recycle time of the pack. Each Gemini controls the charge by itself according to its own setting and there are NO user controls on the pack for these.

A Travel-Pak cable, BW-7632 as supplied with the Gemini, is required for each Gemini. DO NOT use any other type of cable or damage may result.

If only one of the auxiliary outlets is used please make sure that the dummy socket, attached to the cable, is fitted to the other extension socket.

Once connected, switch the power on the Gemini(s) to position II. Switch the Explorer on. The Gemini(s) will now charge followed by the pack. Adjust the flash power on the Gemini(s) and set up as required. If more than one Gemini is fitted then wait until both are ready before firing. If the pack is being flashed simultaneously with the Gemini then the READY indicator on the pack indicates that the overall set-up is READY.

Use is as normal except the Gemini modelling light will not be available.

For correct and safe operation of the Gemini please refer to the relevant instructions.

Dear Valued Customer,

Thank you for choosing the Bowens Explorer 1500. The Explorer 1500 has been designed using the latest technology to produce a unit that is simple to operate, yet has a powerful, highly controllable and accurate output.

For details of all related products, please contact your local distributor, a list of which can be found at www.bowens.co.uk

In order to obtain the full benefit from your purchase, please take a few moments to familiarise yourself with this user guide.

Thank you.
Bowens International Ltd.

Safety Notes

ALWAYS

·   Switch the pack **OFF** before connecting or disconnecting **ANY** cables from the pack or changing a flash tube or bulb on a flash head.

·   Fit only Bowens approved equipment to this unit.

·   Have the unit checked out before using if it is dropped or damaged in any way.

·   Have the unit checked by an authorised service centre only, due to the high energy/high voltage of the units.

·   Use a Bowens approved charger with this unit.

·   Take care not to drop the battery cassette - the battery is heavier than its size may suggest.

·   Keep the battery cassette clean and dry to prevent contamination of the contacts and fuses. Do not use any organic solvents or detergents. Wipe with a clean dry cloth.

·   Recharge the battery as soon as possible after use. The battery has no so-called memory effect so for longest life keep fully charged at all times.

·   Fully charge every 6-9 weeks to maintain battery condition (if possible leave the battery cassette on charge indefinately).

·   Run skin under water immediately if contact made with electrolyde (acid).

NEVER

- Use the Explorer in an environment where moisture or flammable vapour is likely to come in contact with the unit.

- Leave trailing supply cords and sync leads where they can be tripped over or damaged.

- Connect an external mains supply to any Gemini that is also connected to the Explorer (this may cause a circuit breaker to trip or a fuse to blow).

- Charge the Battery Cassette in a gas tight container.

- Use a unit with damaged covers, mouldings or sockets.

- Open the casing or modify the operation of any Bowens units.

- Change the fuses for a different type or rating. The Explorer Battery Cassette is protected by two 40A and one 5A automative blade type fuses. In the event that one or more fuses have blown it is likely that a genuine fault has occured and the unit and/or battery cassette will need repair by an authorised service centre.

- Leave the unit and/or flash heads in close proximity to any flammable materials while the unit is in use.

- Move the unit from extremes of temperatures and humidity. When moving the unit from such conditions allow at least one hour for the unit to stabilise at room temperature before using.

- Open the battery cassette or try to modify it for any reason. There are no user-serviceable parts inside.

- Dispose of the battery in normal household waste or in a fire (always dispose of battery in the correct way. Recycling details below).

RECYCLING INFO

- The Battery Cassette contains a Sealed Lead Acid Battery containing hazardous chemicals and it is therefore subject to special waste disposal and/or recycling.

  In the USA only you may call 1-800-SAV-LEAD (1-800-728-5323) for complete recycling information.

  For disposal information in the UK go to www.wasteonline.org.uk or call G&P Batteries (the largest nation-wide collector of waste batteries in the UK, particularly lead acid) on 0121 568 3200.

'Remote Radio Trigger'

The pack has a built-in multi-channel radio receiver compatible with Bowens own Pulsar radio trigger system and Calumets LiteLink. Enter the PACK SETUP menu and select the desired CHANNEL number and STUDIO number (if applicable). Then go to the BASIC FUNCTION menu and set the Radio Sync. to ON. For further details see instructions for the system used.

One or two flash heads may be connected to the pack via sockets A and B.

Always ensure that the pack is switched off before fitting or removing a flash head.

Always ensure that a flash head is removed before carrying out any maintenance to the head such as changing a flash tube or bulb.

Plug the head in by first inserting the front of the connector into the socket and then pushing down on the rear to lock it. Always ensure that it is locked before use. To remove the flash head grasp the conector, not the lead, push the latch away from the connector and pull it upwards.

The pack is designed in such a way that the output to the flash heads can be continuously controlled in 1/10 f-stops using the Rotary Dial together with the A and B buttons. The A+B or A/B (SYM/ASYM) selector from the BASIC FUNCTION menu controls the distribution of power between the A and B sockets.

When set to A+B the overall power of the pack is combined and is available from either or both A and B sockets. In this mode the A channel controls the overall power and the LCD shows only the A channel.

When set to A/B the two channels A and B can be controlled separately. At the maximum power setting there is a fixed ratio of 1 f-stop between channel A and channel B i.e. A = 1000Ws and B = 500Ws.

Turn the Rotary Dial to highlight the required function.

Press SELECT to allow the status or value of the chosen function to be changed.

Rotate the KNOB to cycle through the possible settings or values and select the required one.

```
AUXILARY CONTROL MENU

AUTO OFF          10 Min
BACKLIGHT MODE  AUTO
```
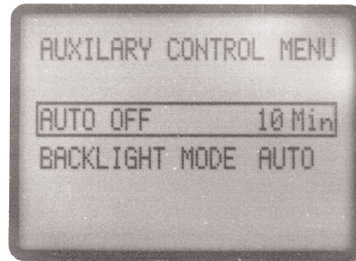
'Auto Off'

This allows the pack auto-off period to be set in the range of 1 - 60 minutes or NEVER. The pack automatically switches itself off if the cobntrols or Sync. have not been in use during the selected period.

'Backlight Mode'

This allows the LCD backlight mode to be set to OFF, ON or AUTO. The display will be adequate in OFF or AUTO under most working conditions. In AUTO the backlight will only light if the ambient light is insufficient and a setting changed. It will turn off shortly afterwards if the controls are not used.

Camera Synchronising

There a number of possible methods of synchronising the pack to the camera or any other remote triggering device. These can also be used simultaneously allowing maximum flexibility:

'Sync. Cable'

Two Sync. sockets are provided for a hard-wired triggering system. This allows a camera to be directly plugged in using the supplied Sync. cable. At the same time a flash meter or other remote triggering device may also be plugged in to the other socket. The Sync. cable may be extended using Sync. Extension cords if required.

'Photocell'

The photocell provides a means of triggering the pack from an external flash source. Just ensure that the red photocell window on the top panel can 'see' the flash source. Go to the BASIC FUNCTION menu and set the photocell to 'on'.
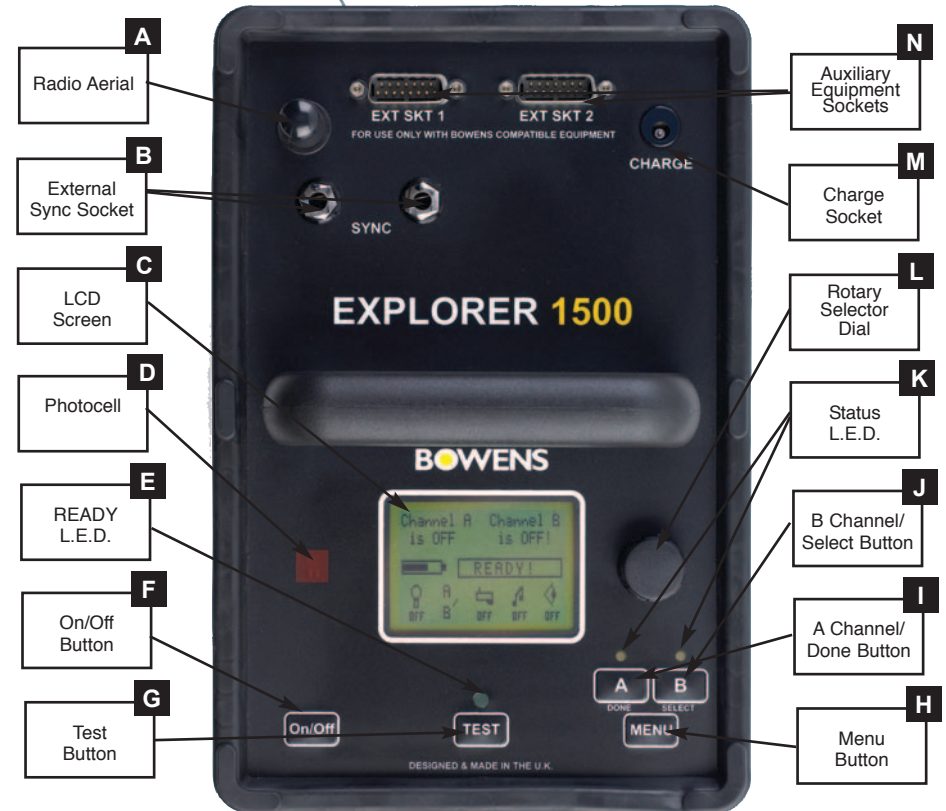
A) Provides the ability to remotely trigger the pack using Bowens Pulsar or Calumets LiteLink. Remote setting of channels is also provided.
B) Connect a camera, flash meter, remote trigger device etc. via the supplied cable.
C) Displays the current settings and status information.
D) & Backlight Sensor Window - Keep uncovered.
E) Shows green when pack is READY.
F) Press and hold for 2 seconds to turn on. Press again to turn off.
G) Press to flash the pack. It can also be used to quickly dump any excess energy.
H) Allows various menu levels and functions to be selected.
I) Selects the A channel for control or saves the current selected setting.
J) Selects the B channel for control or selects function for setting.
K) Status LEDs
L) Allows selection of a menu item or adjustment of the currently selected function or setting.
M) Use the supplied 2A charger if required to charge the battery cassette within the pack.
N) Auxiliary Equipment Sockets - Can power up to two Gemini monoblocs.

- Ensure that a Battery Cassette with sufficient charge remaining for the work required is fitted into the pack. For best results use a fully charged Battery Cassette.

- A fully charged Battery Cassette can be checked outside of the pack by plugging the charger into the cassette and switching the charger on. If the indicator on the charger changes to green within 20 seconds then the battery is at least 90% charged.

- Connect the required flash heads and/or Gemini monoblocs to the pack. See operating instructions for these.

- Connect the camera Sync. cord to one of the Sync. sockets or use the internal photocell or radio for remote triggering.

- Switch the pack on by pressing and holding the On/Off button for two seconds.

- Select the required heads and energy level/flash power.

- Select the required charge rate/recycle time (charge rate can be found in the 'Pack Setup' Menu. Select from either MIN, SLOW, AUTO, or FAST.

- Select audible READY signal.

- Select any other option desired.

- Ensure that the green READY light is lit.

- Switch the modelling light on if desired.

Using the Battery

- The pack cannot be used without the battery cassette fitted.

- The pack can still be used while charging the battery cassette (providing there is sufficient charge remaining within the battery).

- Use only Bowens approved chargers or permanent damage may occur.

- The battery cassette can be charged either within or outside the pack from mains using the supplied charger or alternatively from a vehicle using the optional car charger.

- The battery has no memory effect so it can be charged and discharged from any state. However, for best results and service life never fully discharge the battery, charge it as soon as possible after use and keep it fully charged.

Turn the Rotary Dial to highlight the required function.

Press SELECT to initiate the required function.

The desired function will be carried out and you will be left in the SECOND menu.

'Load System Setup'

Load a previously saved set-up.

'Save System Setup'

Save the current settings.

'Restore Setup'

Restores all of the factory settings.

Status Information Display

This display provides information on the pack history and current status such as the number of flashes completed, temperatures, battery voltage, software version etc.

The pack has two flash counters, PACK TOTAL, which cannot be modified by the user and JOB COUNT, which can. The job counter may be used to record the number of flashes over a particular period by resetting its value after the session.

Press MENU and SELECT together to reset the JOB COUNT.
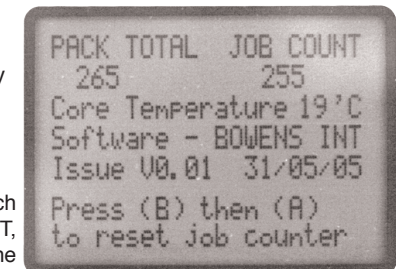
'Skip'

This is solely for use with two or more packs and is designed to allow the photographer to trigger up to eight packs in sequence and therefore enable effectively faster flash rates or to even produce special effects.

• Each pack must be connected to the SAME trigger source and must have 'Skip' turned on.

• Set 'SKIP' to 'ON'.

• Set Total Packs on each pack to the number in use (2-9).

• Assign each pack a Pack ID according to the order of triggering required. This must be less than or equal to the total number of packs used.

Once set up and a Sync. signal occurs, each pack begins counting the number of triggers detected. When this number is equal to the Pack ID of a pack, the pack will then fire.

e.g. Consider 3 packs each set with Total Packs = 3 and individually set with Pack ID = 1, 2 and 3.

Having set SKIP on each pack to ON, the first Sync. signal will cause Pack 1 to fire, the second (Pack 2) to fire and the third (Pack 3) to fire. The fourth trigger will cause Pack 1 to fire again and so on.

'Multi'

This allows the pack to fire a multiple number of times following a single trigger signal.

• Set Shots/Trig to the number required in the range 2 - 99.

• Set interval to the required time between shots in the range 1 - 99 seconds.

On receiving a Sync. signal the pack will fire off automatically the chosen number of shots with the chosen time interval between them.

NOTE:
In setting certain modes the user must ensure that the pack will recharge within the time set, otherwise it will not be READY and hence will not fire as expected.

• Lay the pack on its longest side with the aerial uppermost.

• Lay the battery cassette with the fuses uppermost and the slotted handle to the right.

• Rotate the toggle botton on the base of the cassette to realise the two handles and open them fully out.

• Slide the battery cassette into the pack with the slotted handle towards the right. The cassette will not fit in the pack the wrong way round.

• Gently push the cassette all the way in and fold the handles down so that they lock the cassette inside the pack.

• Lock the handles in place by rotating the toggle button. Rotate the toggle button to adjust the lock.

• Stand the pack upright.

• Removal of the cassette is the reverse of fitting.

• Lay the pack on its longest side with the aerial uppermost.

• Rotate the toggle button on the base of the cassette to release the two handles.

• Fold out the handles and pull on them whilst using the thumbs against the pack to eject the cassette out of the pack.

- One universal voltage charger is supplied with the pack and is provided with a set of mains adaptors suitable for the majority of mains outlets around the world.

- Choose the adaptor suitable for your mains supply. If an unusual mains outlet is encountered an appropriate travel adaptor will need to be found.

- If the battery cassette is to be charged inside the pack, plug the charger output connector into the CHARGE jack socket on the top of the pack.

- If the battery cassette is to be charged outside the pack, plug the charger output connector into the CHARGE jack socket on the side of the cassette. Avoid knocking or placing strain on the connector.

- Connect the charger to the mains supply and switch on.

- A red indicator on the charger shows that the cassette is charging normally.

- In the unlikely event that the indicator shows yellow then there is a fault and the cassette and charger should be disconnected.

- The green indicator briefly flickering shows the transition between charging and trickle charge.

- When the indicator shows steady green the cassette is approximately 90% - 95% charged and is being trickle charged.

- If possible leave the battery cassette to charge for a further 30-60 minutes to ensure that it is fully charged. The Battery Cassette cannot be overcharged if the charger is left connected.

- A full charge from a discharged state may take anything up to 6 hours depending on the charger used.

- Please read the battery cassette safety and maintenance instructions at the end of these instructions.

Bracketing allows three consecutive shots to be taken at power levels above, at and below the current setting level. The bracketing sequence may be arranged to start at a low power working upwards or alternatively begin at a high power and work downwards. First set the desired power setting.
Set the desired bracket step size between 0.1 and 0.9 by pressing SELECT to highlight the bracket settings and then turn the Rotary Dial to set. Press MENU to highlight START.
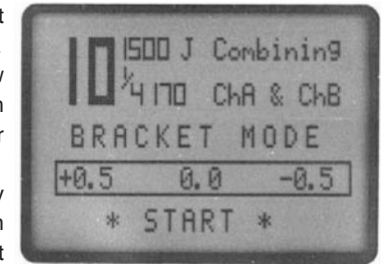
The unit will automatically check and warn if the selection is not possible within the existing setting constraints. A warning occurs if the bracket step will take the unit outside of its normal operating range.

The left most bracket step is always carried out first so ensure that this is negative to start from a lower power or positive to start from a higher power.

As an example, assume a single head in socket A is set for 6.0. First Select a -0.3 bracket step.

The screen indicates that the first flash will occur -0.3 stop below the present power setting. The second flash will be at the present power setting and the final flash will be 0.3 stop above the present power setting. A pointer under the step indicates the next flash and DONE indicates that the flash is complete. At any time, pressing DONE will take the user out of bracketing mode.

The three TRIGGER MODES are accessible from the TRIGGER MODE menu and allow the user to create delays, multiple flashes and to sequence flashes using more than one pack.

These modes can also be used in conjunction with one another. The actual use of these modes is left to the creativity of the photographer. When they are not required just leave them switched off. When turning off the pack all settings within various modes are retained.
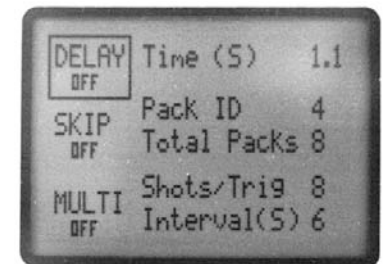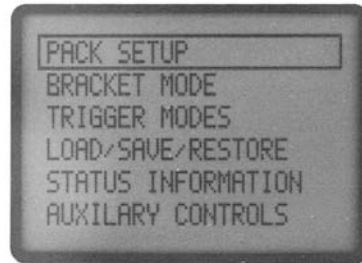
'Delay'

This allows a timed delay between triggering the pack and the pack firing.

- Select 'DELAY' and switch on. Press done.
- Set time as required between 0 and 9.9 seconds in steps of 0.1 seconds.
- Press done..

Now there will be the chosen delay between the trigger and the flash occuring.

- This allows less frequently used settings to be changed. From the main menu press the menu button twice.

- Turn the Rotary Dial to highlight the required function.

- Press SELECT to go into the settings menu for the chosen function.

- Repeat the above procedure for any other functions within this menu.

```
PACK SETUP
BRACKET MODE
TRIGGER MODES
LOAD/SAVE/RESTORE
STATUS INFORMATION
AUXILARY CONTROLS
```

Pack Setup Menu

This allows the Charge Rate, Lamp Time, Radio Channel and Radio Studio settings to be altered as desired.

'Charge Rate'

This determines how quickly the pack will charge and can be set to AUTO, FAST, SLOW, or MIN.

In all cases the pack will determine the charge state of the battery and slow down the Charge Rate automatically as the battery becomes discharged. It is advisable to keep the pack set to MIN or SLOW whenever a faster charge rate is not necessary. This will give more flashes from the battery per charge and also preserves the life of the battery.

```
PACK SETUP MENU
Charge Rate    MIN
Lamp Time      10 Sec
Radio Channel  2
Radio Studio   D
```
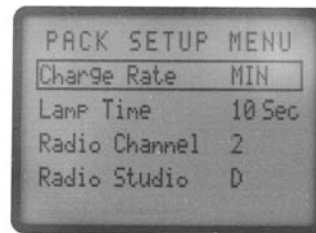
'Lamp Time'

This sets the timeout period for the modelling lamp to be set between 1 to 99 seconds.

'Radio Channel'

This sets the radio channel (range of 1 - 4, or ALL).

'Radio Studio'

This sets the studio channel (range of A - F).

In addition to the ON/OFF and TEST buttons the pack functions are simply controlled by means of three multi-function buttons and a rotary control. In all cases the current status is shown on the LCD display.

The backlight automatically switches on if the ambient light level is insufficient for comfortable viewing.

- The MENU button selects the next lowest level of the menu.

- The rotary KNOB highlights menu items or changes values quickly.

- The A and B buttons select the appropriate flash channel for change while in the MAIN menu.

- The B button also doubles as the SELECT button and selects an item from a menu or changes the state of a function. e.g. LAMP ON or OFF.

- The A button also doubles as the DONE button and completes the chosen setting while repeated presses takes you back up the menu structure.

Turning the pack On & Off

- Turn the pack on by pressing and holding the ON/OFF button.

- A splash screen similar to that shown will appear while the button is held down, and then change to the menu display. Release the ON/OFF button.

- Releasing the button will cause the MAIN menu to appear and the pack to start charging the capacitors.

- Turn the pack off by pressing the ON/OFF button and waiting until the splash screen appears. Release the ON/OFF button.

This is the MAIN or top-level menu shown by default after switched on:

The top third of the screen shows the flash power setting for both channels in digital f-stops and Joules (Watt - second) together with the functional flash duration in seconds.

To set the flash power press the A or B button to select the required channel. The associated LED will light to show it is selected. Set the power for that channel by rotating the knob.

Press the appropriate button, A or B again to go back to the MAIN menu where both LEDs will be off.

The battery CHARGE state is shown in the middle of the screen together with the READY state.

At the bottom of the screen are icons for the most commonly used functions with their current status. These are controlled by the BASIC FUNCTION menu.

Basic Functions Menu

This is the BASIC FUNCTION menu for selecting and setting the most commonly used functions.

While in the MAIN menu press the MENU button once. Turn the Rotary Dial to highlight the function icon required.

Press SELECT to change the status of the selected function.

'Modelling' (currently selected in picture)

This turns the modelling light on or off. If the modelling lamp is left on it will turn off automatically after a user-determined period. Set to the desired period from the PACK SETUP menu.

The modelling light is fixed and does not vary with the flash setting. Using the modelling lamp reduces the number of flashes available from the battery cassette. A 250W lamp switched on for 10 seconds uses the equivalent energy of between two or three full power flashes. Use a lower power lamp (50W or 100W) if this is likely to be a problem.

'A+B or A/B'

This switches between asymmetric (A/B) and symmetric (A+B) modes. This allows the power to be asymmetrically split between the two channels A and B, or combined so that the full power is available from one channel or symmetrically split between them.

'Radio'

This turns the multi-channel radio receiver on or off. This is compatible with Bowens own Pulsar Radio Trigger system and Calumets LiteLink. Select the desired Channel and Studio numbers from the PACK SETUP menu. For further details see the instructions for the system used.

'Sounder'

This switches the sounder on or off, which when switched on provides the following:

• A short beep when the pack comes to READY.

• A short beep for button presses.

'Photocell'

This switches the sensitive photocell on or off and provides a means of triggering the pack from an external flash source. Always ensure the red photocell window on the top panel can 'see' the flash source.

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com