

PHILEX
vision

User Manual

HD Portable
Satellite System



AFTER SALES SUPPORT



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General safety warnings

Avoid exposing your equipment to harsh conditions such as wet or damp places, high humidity, strong vibration, extremely high or low temperatures, strong sunlight and places that are very dusty.

Do not cover or place heavy objects on the receiver unit. Make sure there is sufficient clearance around the unit to allow adequate ventilation.

Never push objects into holes or ventilation slots.

To save power, switch off mains power or pull out the mains power plug when you are not using the equipment.

Don't continue to use this equipment if you have spilt liquids on it, if it is damaged in any way or if it does not work normally. Immediately unplug the equipment and contact the after sales support line.

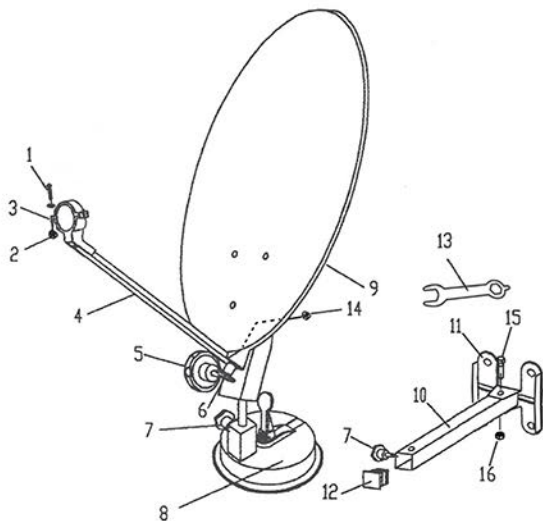
Pull the mains plug out of the wall socket during thunderstorms and disconnect the satellite dish.

Cleaning: disconnect the mains supply and use only a lightly dampened soft cloth. Do not use chemical solvents or strong detergents as these may damage the cosmetic finish.

- To prevent electric shock, do not remove any covers.
- If anything goes wrong, don't try and fix it yourself, contact the after sales support line.
- Do not expose this equipment to dripping or splashing liquids.
- Never allow a naked flame on or near the equipment.
- This product is not a toy. Do not let young children play with the equipment.

WARNING! Please read the safety checklist below before operating your portable Satellite System

1. While installing the 'Portable Satellite System' on a vehicle (car, motor-home, camper etc) the dish should be stored inside the vehicle before starting the journey. The dish must not remain outside even for short trips and even if the vehicle is travelling slowly.
2. This 'Portable Satellite System,' can only be used in static conditions, it must not be used in a moving vehicle or on an unstable platform
3. Suction pad
 - The force of the suction pad may change depending on conditions. It can be influenced by the weather, temperature fluctuations, cleanliness & mounting surface material etc.
 - The suction pad cannot be relied on as a permanent mounting method. Please ensure nothing delicate or valuable is located beneath the dish, in case it should fall.
4. The reception threshold is restricted by the broadcast power of the satellite and the reception location. If the signal is weak the picture on the TV could break up and the sound may be poor.
5. The reception quality can deteriorate if the dish is damaged (dented / warped). The satellite unit can only be used if all of the equipment is in perfect condition. Any defective parts could cause a reception failure.
6. Please follow this set up guide to assemble & connect the 'Portable Satellite System'
7. Dismantle the dish if there is a likelihood of a thunderstorm or of strong winds (>45mph.)



Dish Components Listing

1. M4 x 19mm Bolt & Washer...x1	6. M5 20mm Star Knob Bolt...x1	11. Wall Bracketx1
2. M4 x Nut.....x2	7. M5 12mm Star Knob Bolt...x1	12. Seal Capx1
3. LNB Clip.....x1	8. Suction Cupx1	13. Spannerx1
4. LNB Support.....x1	9. 35cm Dishx1	14. M5 nut for Star Knob Bolt...x1
5. M8 Star Knob Screw.....x1	10. Wall Mount Tube.....x1	15 & 16 Bolt, nut and washer...x1

Dish Setup

1. Insert the LNB arm [4] into the square opening of the dish as far as possible then screw into place using knob screw [6] and nut [14].
2. Loosen the LNB clip [3] insert the LNB, then tighten nut and bolt [1&2].

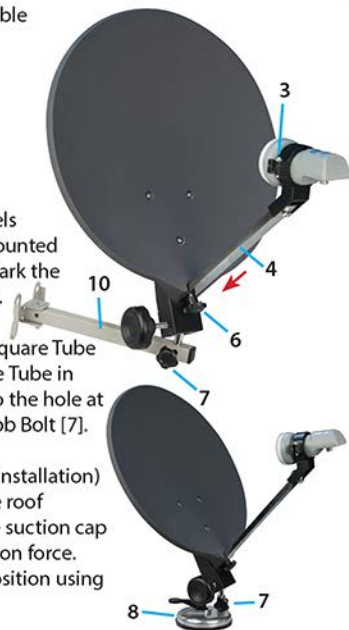
There are two different installation options using either the Suction Pad or the Wall Mount.

Wall Mounting Assembly

The Astra 2E, 2F, 2G satellites at 28.3°E host most of the free to view channels popular in the UK. To receive these satellite signals the dish needs to be mounted on a south facing wall. Screw the Wall Mounting Bracket [11] to the wall. Mark the wall for the 4 bolt holes. Use an appropriate size drill bit for the fixing bolts. Drill the wall according to the markings. Use wall bolt fixings for stability (not supplied). Fix the Wall Mounting Bracket with 4 wall bolts. Insert the Square Tube [10] into the square recess of the Wall Mounting Bracket. Secure the Square Tube in position with the bolt, nut & washer [15 & 16]. Insert the dish assembly into the hole in the wall bracket and fasten in position using the 12mm Star Knob Bolt [7].

Suction Pad Assembly (Please see the "safety checklist" on page 3 before installation)

The suction pad is designed to attach to a hard smooth surface such as the roof of a car or caravan. First make sure the mounting surface is clean. Place the suction cap [8] in position press down and then push the lever down to apply the suction force. Insert the dish assembly into the hole in the suction cap and fasten into position using the M5 12mm Star Knob Bolt [7].



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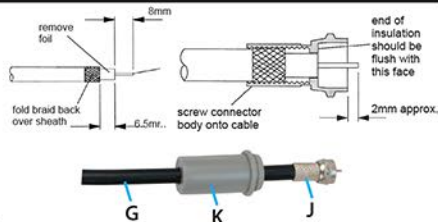
Preparing the Satellite Download

F-connector fitting

First slide the LNB rubber weather boot [K] over the dish end of the cable.

Strip the end of the cable as shown opposite. Once you have stripped the cable, twist the braid and pull it back on itself, make sure that no braid is touching the copper core, this will cause a short on the cable and you will not get any signal.

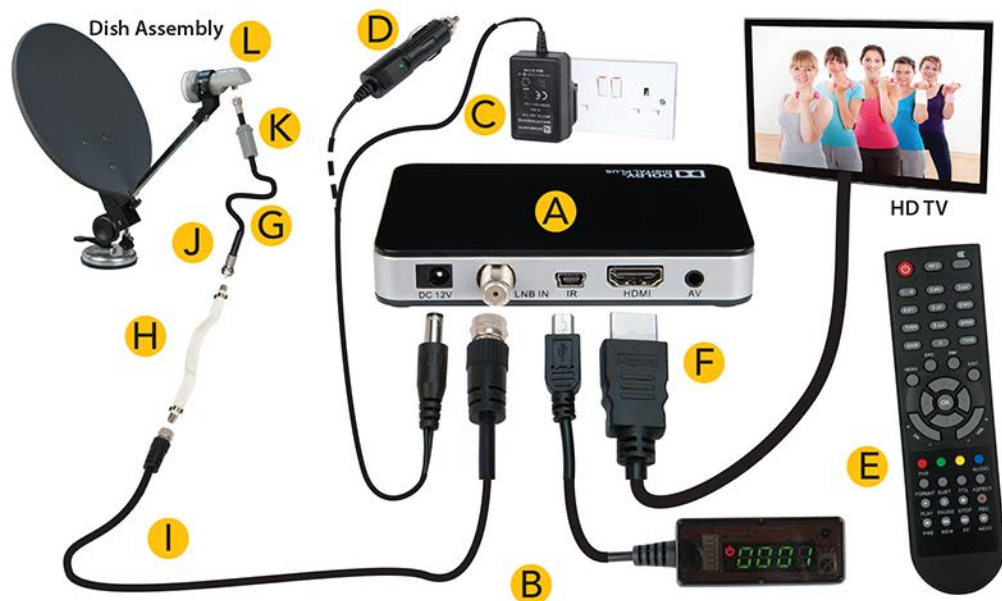
Now, simply twist on the 'F' connector and connect to the LNB making sure that the weather boot is correctly secured over the LNB connector.



Other Kit Components

A. Satellite Receiver.....	x1	F. HDMI Cable.....	x1	K. Rubber Weather Boot.....	x1
B. IR Sensor/Display.....	x1	G. Satellite Download.....	x1	L. LNB.....	x1
C. Mains Power Adaptor.....	x1	H. Flat Flexible Satellite Cable.....	x1	M. Satellite Finder.....	x1
D. Car Power Adaptor.....	x1	I. Satellite Flylead.....	x1	N. Finder Connection Cable... x1	
E. Remote Control.....	x1	J. F Connectors.....	x2	O. Compass.....	x1

System Connections



Make connections as shown above.

- To power the receiver use either [C] to connect to the mains socket or [D] to connect to a 12V DC car socket.
- The flat flexible satellite cable [H] is supplied to allow you to feed the cable through a window which can be then be shut so that security is not compromised (please note the connection between [G] & [H] should be weatherproofed using waterproof tape if exposed to the weather).
- To control your satellite receiver you need to connect the IR sensor/display [B]. The sensor has a 90cm lead and can be positioned at your convenience close to or on the TV. Always make sure the sensor is in line of sight to the remote control. Remember to point the remote at the sensor and not the receiver

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Positioning and Aligning your Dish

IMPORTANT: DO NOT SCAN for channels until you are 100% sure you have the right Satellite. If you scan on the wrong satellite you will need to do a factory reset to successfully scan again.

Reception Locations

Obstacles - Here is a simple calculation for deciding if obstacles are blocking your satellite reception -

Formula:

Height of the obstacle x 2 = Minimum distance. Example: If there is a tree 15m high: 15m x 2 = 30m

According to the calculation, the Mini system dish location should be at least 30m away from the tree otherwise it will block the satellite signal.

The effect of weather conditions on satellite reception

Strong rain or snow will weaken the satellite signal and can interrupt reception. If the satellite signal is getting weak, the quality of the TV broadcast will deteriorate and there could be no signal at all.

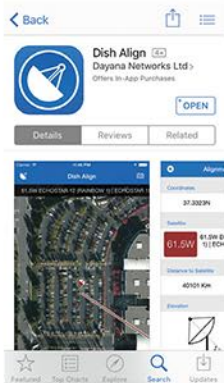
Satellite Names

Please note the satellites at a particular location will change as new ones are brought into service and old ones are switched off. The new Astra 2E, 2F, 2G satellites at 28.3°E currently host most of the free to view channels popular in the UK. On your satellite receiver these are listed as Eutelsat 28A and on some websites that haven't yet been updated you may see Astra 2A, 2C and 2D listed instead of 2E and 2G. It is the location 28.3°E that is important.

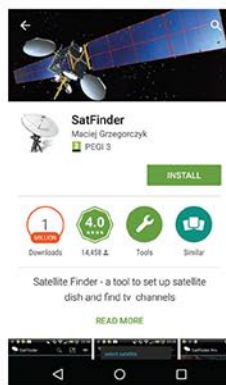
Satellite Dish Alignment Settings

There are a number of online apps for smartphones which can be used to help align your dish. Finder apps vary so we suggest you use them in conjunction with the Satellite finder provided. Below are 2 suggestions for apps that we have tested and found to be useful in aligning your satellite dish:

IOS Dish Align app:



Android SatFinder app:



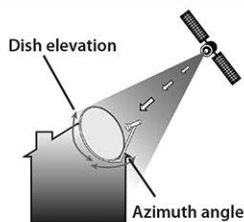
Alternatively you can obtain accurate settings from the website: www.dishpointer.com

Enter your location and select satellite 28.2E ASTRA 2A | ASTRA 2C | ASTRA 2D | ASTRA 2F (this is how the satellite is named on the www.dishpointer.com website at the time of going to print). By locating your area on the map on the website, the programme will give the precise settings that you will require to align to the satellites. If you do not have access to the internet we have included a chart on pages 12-14 showing settings for the key areas in the UK and Republic of Ireland. Identify the town nearest to you and work on those settings.

Aligning the Satellite Dish

Three settings are required. Initially use the settings you have obtained using one of the methods described in the paragraph above :

- a) **Dish elevation** - For 28.2E Astra the dish should be vertical for nearly all locations in the UK this will give an LNB reception angle of approx. 20°.
- b) **Polarisation (Skew) angle** - this is the angle at which the LNB needs to be rotated in its mount. This can be adjusted by loosening the screw on the LNB clip and twisting the LNB so that the centre mark on the LNB lines up with the correct angle marked on the clip (see opposite).
- c) **Azimuth angle** - this is the compass bearing required and varies depending on your location in the country.



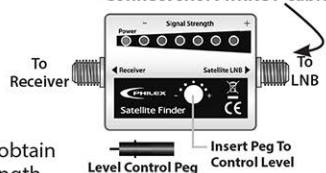
Using the satellite finder and compass supplied - these are included in the kit to help you locate the satellite and set your dish in the optimum position.

- a) First disconnect the downlead from the LNB mounted on your satellite dish and connect it to the left hand receiver socket on the satellite finder
- b) Connect one end of the short white F cable supplied to the LNB, connect the other end to F connection on your Satellite Finder marked "Satellite LNB".
- c) Ensure that your satellite receiver is switched on. The Satellite Finder's power and signal strength LEDs will light up, using the level control peg adjust the level control to reduce the number of lit red LEDs to 2 or 3 by turning the control anti-clockwise (the pitch of the audible tone will also reduce).
- d) Set your satellite dish to the correct azimuth and elevation settings. Using the compass supplied align the red arrow to North 0° and then read off the correct azimuth angle.
- e) Slowly scan the sky with the satellite dish (side to side movement) from around 5° either side of the correct azimuth angle. The number of LEDs lit and the pitch of the tone will increase/decrease, if it does not then adjust the elevation by half a degree and repeat the scan.
- f) Keep adjusting the azimuth and elevation of the satellite dish so that you obtain the highest reading possible. An audio signal also indicates the signal strength. If the signal reading goes beyond '6' on the scale turn the Level Control anti-clockwise to reduce the reading to '2' and continue to adjust until you cannot improve the signal further.



Polarisation/Skew angle

Connect short white F cable



PLEASE NOTE: Do not use the Satellite Finder directly in front of your satellite dish - this can result in a continuous full scale reading (i.e. above '6' LEDs). If the meter reading keeps jumping then adjust the Level Control on the Satellite Finder. Turn anti-clockwise to lower the sensitivity.

Satellite Receiver Setup and Fine Tuning Dish Alignment

Fine Tuning: Once you have set the dish position using the satellite finder you can fine tune the position using the satellite receiver.

1. Turn on the TV. Use the remote control ◀▶▲▼ and OK keys to navigate and select. On the TV /Receiver Set up first go to the 'Satellite list' and highlight the one you want. (for free to air Eutelsat 28A E 28.3). Select and press OK a ♥ heart symbol will appear next to the selected satellite then press [EXIT]
2. Select Antenna Setup ensure the satellite you want appears at the top. (For free to air it will say - Eutelsat 28A E 28.3). At the bottom of the screen you will see bars showing 'Signal Intensity' and 'Signal Quality'. You want the Signal Quality to be as high as possible 50% or more. 60% being good. 80% very good. 'Signal Intensity' is NOT as important as 'Signal Quality' but it ideally needs to be at least 50%.

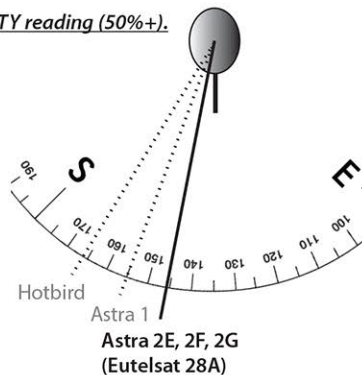
Satellite List		
1	Eutelsat 28A	E 28.3
2	KU_Thaicom 5	E 78.5
3	Hotbird 6/8/9	E 13.0
4	Badr 4/5/6	E 26.0
5	Astra 1H/1KR/1L/	E 19.2
6	C_ASIASAT 3S	E 105.5

Edit Add Delete

Antenna Setup		
Satellite	< Eutelsat 28A >	
LNB Freq	Universal (9750-10600)	
Transponder	Disable	
DiSEq1.0	Disable	
DiSEq1.1	Off	
22KHz	On	
Polarity	Auto	
Signal Intensity	<div style="width: 60%;"></div>	60%
Signal Quality	<div style="width: 75%;"></div>	75%

PLEASE NOTE: *Do not scan or search until you have a good signal QUALITY reading (50%+).*

- With one person watching the screen, the other person needs to move the dish slowly around until the signal quality is as high as possible and signal intensity is 50% or more. The dish needs to be within 0.1 of a degree of the satellite position (about 1mm in movement terms) when making these adjustments, the signal intensity meter on the screen takes up to 5 seconds to register the signal, so you can't just sweep the dish around the sky, you need to make very precise, very subtle movements of the dish, stopping for a few seconds after each movement.



Low Signal Quality High Signal Intensity Reading

If the Signal Quality reading is low on screen (less than 50%), but the Signal Intensity is high then you are aligned to the wrong satellite.

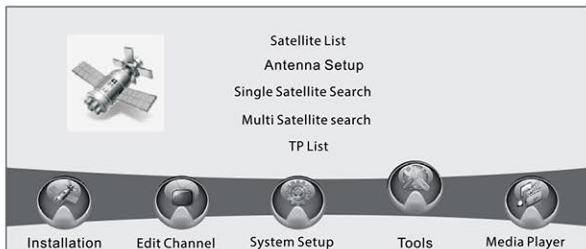
Use the ◀▶▲▼ keys on the remote to select other available satellites that may be giving a high signal Intensity like Hotbird 13 E or Astra 1 19.2E. If Hotbird 13E shows high Signal Intensity and Quality level readings on screen, you need to turn the dish 20° towards the East to find the Astra 2 satellite, you may find another satellite as you turn the dish, which is Astra 1 19.2E, If Astra 1 19.2E shows high Signal Intensity and Quality level readings on screen, you need to turn the dish 9° towards the East to find Astra 2.

Once you are confident your signal quality and intensity are as high as possible, tighten the dish up, your dish installation is complete.

Satellite Receiver Installation and Operation

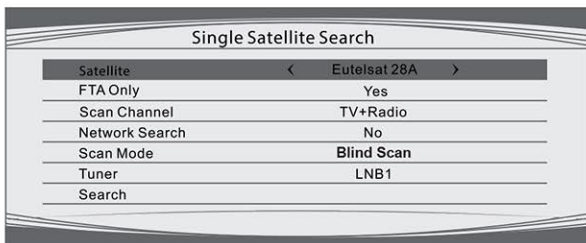
Main Menu

Connect the satellite receiver to your TV with the HDMI cable supplied. Then select the relevant HDMI input on your TV menu. Press [menu] on the satellite receiver remote control and the main menu shown above will appear on screen. Press the ▲▼ keys on the remote to select menu items, and press the [OK] key to confirm your selections. To leave a screen press [EXIT].



Single Satellite Search

Enter "Single Satellite Search" menu, to search for available channels on a satellite. Select and confirm the satellite information using the ▲▼ keys. FTA only should be set to Yes as this receiver will not decode scrambled/encrypted channels. In "Scan Mode" function, choose "Blind Scan" to locate all available channels. You can use "Auto Scan" but if any of the channels you want don't appear you will then need to try searching again with Blind Scan. Some channels will be suffixed 'Fail' this indicates that no Free to Air channels have been found on this transponder

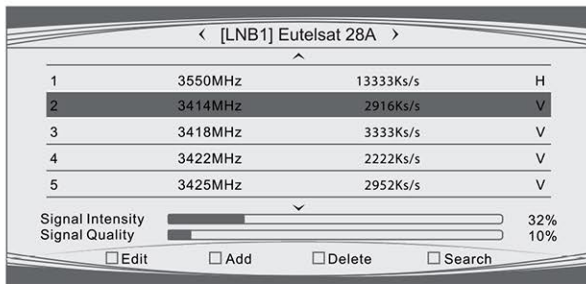


Multi Satellite Search

The "Multi Satellite Search" menu is only used if you are connected to a motorised dish and is not applicable to this HD portable satellite system which contains a fixed dish.

TP List

If after searching you are still missing channels you want to view from a satellite. You can enter the TP List menu to search by transponder. Select the correct satellite using the arrow keys. You will then need to enter the frequency, symbol rate and orientation of the transponder (these can be looked up on sites like lyngsat.com). You can then search, edit, add or delete using the indicated colour key.



Edit Channel

Channel list management groups channels found together during searches.

TV Channel List

Enter the "TV Channel List" to see all the channels found, use the ◀▶ keys to change satellites. Edit the channels using the favourite, lock, delete, edit and function keys. Using the colour keys indicated to select the functions and up and down arrow keys to switch between the channels to be edited, Press OK to confirm.



Radio Channel List

This works in exactly the same way as the "TV Channel List".

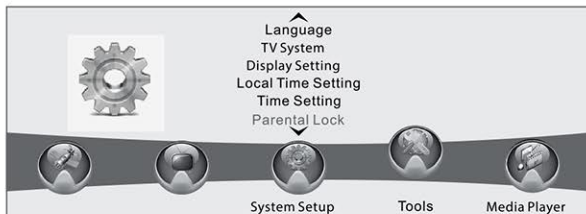
Delete All

A warning window appears if you select "Delete All" the channels, if you are sure you want to go ahead select confirm to delete all the channels.

System Setup

In the system setup menu, Press the arrow keys to select the information which needs editing, such as Language, TV system, display settings, time settings, parental lock.

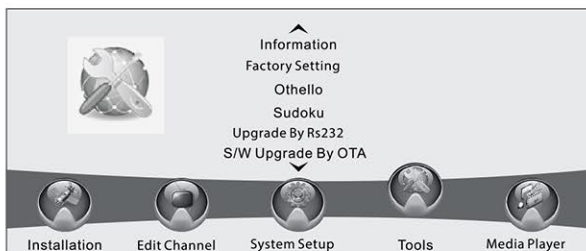
The default password for Parental Lock is "0000". You can lock and unlock the channels in Parental Lock and change the password as well.



Tools

Enter "Tools" menu to check the software version information, factory setting, software update, biss management and playing games. NOTE: For USB update you need to be connected with an external device.

Don't remove USB devices during the upgrade process. Change the biss key information according to the functions indicated by the colour keys



Troubleshooting

Subject	Question	Solution
Power Supply	Receiver is connected to the mains adaptor but there is no display showing.	Check if the power socket is switched on and the sensor display is properly connected.
Remote Control	The Remote doesn't respond properly when keys are pressed.	Check batteries are not flat and that polarity is correct (see battery compartment markings).
Signal	After connecting the satellite downlead to the receiver cable the receiver display still shows "no signal".	Check if the satellite downlead is connected to the receiver properly. Check dish is correctly aligned and that the correct satellite is selected.
	Signal breaks up.	Check the signal level. Check if the satellite downlead is connected to the receiver properly.
Output	Picture color is abnormal.	Check if the receiver and TV have the same format and HDMI is selected.
	No Audio output.	Check that the Audio cables are undamaged and connected correctly. Check that Audio output is not muted or turned down on the receiver or TV. Make sure the Audio is set to stereo.
	No video output.	Check if the correct signal input source to the TV is selected. Check input cables are connected correctly. Make sure the receiver is not in standby mode.
Connected USB Device	Cannot see or open media files.	Make sure the files you want to view/listen to are saved in a compatible format. Make sure the USB device is properly formatted and connected.

Specifications

Satellite Receiver

Power Supply	100-240V~50/60Hz
Power Consumption	≤9W (Powered), ≤1W (In standby mode)
Operating Conditions	Temperature: 0°C -40°C Relative humidity: 10%-80%
Connections	1x LNB input, 1x HDMI output, 1x 3.5mm AV output (composite video & stereo audio) 1x USB port
Dimensions / Weight	235 x 170 x 38mm / 0.8kg

Remote Control

Batteries	2 x AAA Alkaline Batteries (not supplied)
Operating Distance	Up to 8m from sensor
Operating Angle	Up to 30° horizontally, up to 20° vertically
Weight	0.11 kg (Including batteries)

Cleaning and Maintenance

To prevent damage to the your satellite receiver, IR sensor and remote control please note the following:

- Disconnect from power supply before cleaning.
- Clean with a soft cloth dampened with a mild detergent if necessary.
- Keep away from solvents or abrasive materials.
- Avoid prolonged contact with rubber or plastic products to prevent marking your receiver and accessories.

Satellite dish alignment settings for Astra 2E, 2F, 2G (Eutelsat 28A)

28.3 Degrees East for the UK and Ire (English Language Channels)

For other satellite settings see www.dishpointer.com

Town	County	Elevation	Azimuth	Polarization
Aberdeen	Aberdeenshire	19.76	145.17	-10.55
Abergavenny	Gwent	23.96	142.37	-14.66
Aberystwyth	Dyfed	23.05	141.46	-14.84
Alnwick	Northumberland	21.39	145.06	-11.48
Amphill	Bedfordshire	24.77	145.24	-13.03
Athlone	West Meath	20.62	137.71	-16.14
Aviemore	Highland	19.12	143.34	-11.37
Ayr	Ayrshire	20.32	141.85	-13.04
Banff	Aberdeenshire	19.16	144.87	-10.43
Barnstaple	Devon	24.16	140.96	-15.81
Basingstoke	Hampshire	25.22	144.29	-13.92
Bath	Avon	24.61	142.91	-14.61
Belfast	Antrim	20.53	140.27	-14.24
Berwick-Upon-Tweed	Northumberland	20.96	144.86	-11.38
Birmingham	West Midlands	23.84	143.83	-13.57
Blackpool	Lancashire	22.27	143.06	-13.28
Bodmin	Cornwall	24.38	139.98	-16.66
Boston	Lincolnshire	24.10	146.10	-12.12
Bournemouth	Dorset	25.37	143.19	-14.80
Brecon	Powys	23.71	142.02	-14.79
Brighton & Hove	East Sussex	25.95	145.16	-13.65
Bristol	Avon	24.44	142.68	-14.70
Bude	Cornwall	24.17	140.33	-16.29
Burnley	Lancashire	22.59	143.95	-12.84
Bury Saint Edmunds	Suffolk	25.02	146.66	-12.16
Caernarfon	Gwynedd	22.36	141.52	-14.41
Cambridge	Cambridgeshire	24.85	145.97	-12.56
Campbeltown	Argyll & Bute	19.96	140.89	-13.47
Cardiff	Mid Glamorgan	24.19	142.06	-15.01
Cardigan	Ceredigion	23.08	140.69	-15.41
Carlisle	Cumbria	21.40	143.56	-12.48
Carmarthen	Carmarthenshire	23.42	140.98	-15.39
Cavan	Cavan	20.41	138.52	-15.41
Chelmsford	Essex	25.37	146.21	-12.64
Chester	Cheshire	22.86	143.01	-13.63
Colwyn	Clwyd	22.43	142.12	-14.03
Cork	Cork	21.57	136.57	-17.60
Coventry	West Midlands	24.05	144.26	-13.37
Crainlarich	Stirlingshire	19.53	142.26	-12.31
Dingwall	Highland	18.58	142.81	-11.40
Dolgellau	Gwynedd	22.84	141.78	-14.49
Douglas	Isle of Man	21.44	141.64	-13.81
Dover	Kent	26.23	146.91	-12.53
Dublin(Baile Atha Cliath)	Dublin	21.36	139.47	-15.30
Dundee	Angus	20.02	144.02	-11.43
Edinburgh	Midlothian	20.39	143.60	-11.91

Town	County	Elevation	Azimuth	Polarization
Elgin	Grampian	18.91	144.01	-10.83
Exeter	Devon	24.69	141.40	-15.76
Felixstowe	Suffolk	25.51	147.27	-11.96
Fishguard	Dyfed	23.02	140.32	-15.65
Folkestone	Kent	26.24	146.76	-12.64
Fort William	Highland	19.00	141.86	-12.26
Gairloch	Highland	18.08	141.56	-11.90
Galway/Gaillimh	Galway	20.28	136.52	-16.80
Glasgow	Lanarkshire	20.09	142.45	-12.50
Gloucester	Gloucestershire	24.24	143.22	-14.20
Great Yarmouth	Norfolk	25.04	147.96	-11.29
Grimsby	Lincolnshire	23.61	146.25	-11.78
Guildford	Surrey	25.45	144.84	-13.64
Hastings	East Sussex	26.22	146.01	-13.17
Hereford	Hereford and Worcester	23.89	142.79	-14.33
Holyhead	Gwynedd	22.09	141.17	-14.51
Ipswich	Suffolk	25.35	147.08	-12.02
Kendal	Cumbria	21.95	143.56	-12.77
Killarney	Kerry	20.99	135.57	-17.99
Kilmarnock	Ayrshire	20.22	142.13	-12.79
King's Lynn	Norfolk	24.45	146.46	-12.04
Kingston upon Hull	Humberside	23.30	145.98	-11.82
Kyle of Lochalsh	Highland	18.42	141.37	-12.23
Lancaster	Lancashire	22.17	143.40	-12.99
Largs	Ayrshire	19.97	141.80	-12.86
Larne	Antrim	20.35	140.47	-14.00
Leeds	Yorkshire	22.83	144.69	-12.45
Leicester	Leicestershire	24.00	144.74	-13.00
Limerick	Limerick	20.93	136.72	-17.07
Lincoln	Lincolnshire	23.70	145.62	-12.26
Liverpool	Merseyside	22.63	142.99	-13.52
London	Greater London	25.37	145.48	-13.15
Londonderry	Londonderry	19.65	138.93	-14.64
Ludlow	Shropshire	23.63	142.89	-14.12
Luton	Bedfordshire	24.93	145.26	-13.09
Lyme Regis	Dorset	24.92	142.04	-15.41
Maidstone	Kent	25.83	146.07	-12.95
Mallaig	Highland	18.59	141.16	-12.47
Manchester	Greater Manchester	22.87	143.85	-13.05
Middlebrough	North Yorkshire	22.30	145.38	-11.73
Moffat	Dumfries and Galloway	20.85	143.14	-12.46
Montrose	Angus	20.01	144.64	-11.02
Newark upon Trent	Nottinghamshire	23.74	145.24	-12.53
Newcastle upon Tyne	Tyne and Wear	21.78	145.03	-11.69
Newhaven	East Sussex	26.07	145.35	-13.57
Newry	Down	20.70	139.69	-14.75
Newtown	Isle of Wight	25.58	143.72	-14.51
Northampton	Northamptonshire	24.45	144.93	-13.09
Norwich	Norfolk	24.89	147.45	-11.56

Town	County	Elevation	Azimuth	Polarization
Nottingham	Nottinghamshire	23.69	144.81	-12.81
Oban	Argyll & Bute	19.21	141.36	-12.71
Oxford	Oxfordshire	24.75	144.27	-13.71
Peebles	Borders	20.69	143.56	-12.09
Pembroke	Pembrokeshire	23.30	140.27	-15.84
Penrith	Cumbria	21.68	143.70	-12.53
Perth	Perth & Kinross	19.94	143.52	-11.71
Peterborough	Cambridgeshire	24.40	145.70	-12.54
Peterhead	Aberdeenshire	19.54	145.63	-10.16
Pitlochry	Perth & Kinross	19.57	143.31	-11.65
Plymouth	Devon	24.69	140.59	-16.37
Portree	Skye	18.13	140.90	-12.37
Reading	Berkshire	25.10	144.44	-13.76
Rosslare	Wexford	22.20	138.93	-16.21
Scarborough	Yorkshire	22.82	146.12	-11.49
Settle	Yorkshire	22.35	144.00	-12.68
Sevenoaks	Kent	25.70	145.72	-13.13
Sheffield	South Yorkshire	23.22	144.63	-12.70
Shrewsbury	Shropshire	23.32	143.02	-13.87
Sligo	Sligo	19.74	137.48	-15.74
Southampton	Hampshire	25.40	143.80	-14.37
Stafford	Staffordshire	23.49	143.74	-13.45
Stirling	Stirlingshire	19.99	142.84	-12.18
Stoke on Trent	Staffordshire	23.28	143.71	-13.36
Stranraer	Dumfries and Galloway	20.61	141.31	-13.56
Stratford-upon-Avon	Warwickshire	24.18	143.95	-13.65
Swansea (Abertawe)	Swansea	23.76	141.28	-15.35
Swindon	Wiltshire	24.24	143.41	-14.06
Tain	Highland	18.54	143.28	-11.08
Thirsk	North Yorkshire	22.55	145.07	-12.06
Thurso	Highland	18.05	144.11	-10.28
Torquay	Devon	24.92	141.31	-15.96
Tralee (Tra Li)	Kerry	20.73	135.45	-17.92
Truro	Cornwall	24.40	139.56	-17.00
Uig	Skye	17.20	140.31	-12.17
Ullapool	Highland	18.08	142.14	-11.54
Waterford	Waterford	21.90	138.12	-16.62
Watford	Hertfordshire	25.13	145.20	-13.24
Westport	Mayo	19.65	136.21	-16.62
Weymouth	Dorset	25.22	142.51	-15.22
Wick	Highland	18.32	144.51	-10.19
Worcester	Hereford and Worcester	23.97	143.38	-13.95
Workington	Cumbria	21.37	142.79	-12.98
Yeovil	Somerset	24.86	142.45	-15.08
York	North Yorkshire	22.88	145.25	-12.10

WARRANTY CARD

GB

IRE




HD Portable Satellite System

Your details:

Name _____

Address _____

_____ Postcode _____

 _____ Email _____

Date of purchase* _____

*We recommend you keep the receipt with this warranty card

Location of purchase _____

Description of malfunction:

If **after contacting the manufacturer** you are requested to return the faulty product please return the completed warranty card together with it.

Philex Electronic Limited
Philex House
Kingfisher Wharf
London Road
Bedford
MK42 0NX
United Kingdom
technical@philex.com

AFTER SALES SUPPORT

  **0845 7573479**  www.philex.com/support
 **1890 812 721**

MODEL: 28208ALD PRODUCT CODE: 69567 03/2016

Phone lines available
Monday to Friday,
9am - 5pm. Calls are
charged at local rates
from a landline, calls
from mobiles may vary.

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YEAR WARRANTY



Great care has gone into the manufacture of this product and it should therefore provide you with years of good service when used properly. In the event of product failure within its intended use over the course of the first 3 years after date of purchase, we will remedy the problem as quickly as possible once it has been brought to our attention. In the unlikely event of such an occurrence, or if you require any information about the product, please contact us via our helpline support services, details of which are to be found both in this manual and on the product itself.

This does not affect your statutory rights.

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PHILEX ELECTRONIC LTD
PHILEX HOUSE
KINGFISHER BUSINESS PARK
LONDON ROAD, BEDFORD
MK42 0NX



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YEAR WARRANTY