

UPM 100

USB Power Meter

Function and Specifications

Technical Support Document

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I. Introduction

The UPM 100 USB Power Meter allows test technicians to measure absolute power and dB insertion loss on fiber optic cables when used in conjunction with an approved laser or LED light source. The UPM 100 power meter is lightweight and simple to connect to Windows and Android devices to save live readings and attach them to fiber endface images, if necessary.

It is important to note that dB loss and absolute power readings can be affected by dirt or defects on fiber endfaces. It is imperative that test technicians have a full understanding of inspection and cleaning procedures when testing fiber optic networks. ODM offers training classes to test technicians on a regular basis. To contact ODM about training, sales, or technical support, see section V: Technical Support (Page 12).



Auto-analyzed images from VIS 400 using inSpec software



II. Device Overview



Specifications

	UPM 100-02	UPM 100-03	UPM 100-04
Wavelength range	850nm to 1625nm	850nm to 1625nm	850nm to 1625nm
Measurement range	+3 to - 60dBm	+3 to -70dBm	+23 to -45 dBm
Resolution	0.01dB	0.01dB	0.01dB
Absolute Accuracy*	+/-0.25dB	+/-0.25dB	+/-0.25dB
Detector type	Ge	InGaAs	Filtered inGaAs
Optical interface	Universal 2.5mm (Order 1.25mm or screw-on adapters separately)	Universal 2.5mm (Order 1.25mm or screw-on adapters separately)	Universal 2.5mm (Order 1.25mm or screw-on adapters separately)
Tone Identification	2kHz incoming signal, audible alert	2kHz incoming signal, audible alert	2kHz incoming signal, audible alert
Storage	External storage on PC	External storage on PC	External storage on PC
Data Transfer	USB 2.0	USB 2.0	USB 2.0
Dimensions	3.75″L x .75″W x .75″H	3.75″L x .75″W x .75″H	3.75″L x .75″W x .75″H
Weight	.05 lb	.05 lb	.05 lb

*Accuracy measured at -10dBm and 25-degrees Celsius, all other specifications are at 25-degrees Celsius



III. OpTest for Windows

The OpTest software for devices running Windows Vista, 7, and 8 will allow the user to fully control the measurement settings of the UPM 100.

1	OpTest	- • ×
File Settings About		
UPM-100 None		
0.00dB λ 1310nm x 1310 nm · See Provide Clear		st
_{dB/dBm} dB ~	Test Site Customer	
Cable Date Measurement Pass/Fail	Date-Time Company Name July 01.2014 0126 - Update Contact Name Location - Contact Name	✓ Add
	Cable ID Cable Length User Company Name	
	Fibers To Comment Comment	D v Add
PM-100 connection successful		Exit

When the OpTest software is open and the UPM 100 is successfully connected to the computer, a message reading "UPM - 100 connection successful" (outlined in red above) will appear in the bottom left corner of the OpTest window.

Users will fill out all of the Test Settings (outlined in blue above) before exporting their readings. All of this information will be included in the closeout report.

Before beginning dB loss tests, the appropriate dB loss budget and color codes should be set in the software. Click Settings>Report Settings to access the window shown below. Click "Enable" next to the wavelength to be tested, use the Minimum and Maximum fields to set your loss budget, and select a cable color configuration (if applicable). Click "OK" to return to the OpTest main screen.

			Report	Settings		- 🗆 ×		
Power Meter Pass/Fail Settings								
	Minimu	ım	Maximum					
8507	0.0	•	3.0	🗆 Enable	🗆 dB	☑ dBm		
13107	0.0	•	3.0	🗹 Enable	□dB	✓ dBm		
14907	0.0	•	3.0	🗆 Enable	□ dB	☑ dBm		
15507	0.0	•	3.0	🗆 Enable	□dB	☑ dBm		
				✓ Enable R	teal Time P	ass/Fail		
None	None None AT&T LTE 12 Pair AT&T LTE 12 Pair AT&T LTE 18 Pair C-Spire/Ericsson Clearwire (Samsung nRHv2)/Moto Sprint-Alcatel Lucent Sprint/Samsung Sprint 2.5 ALU Sprint 2.5 ALU Sprint 2.5 NSN Sprint/Samsung 2.5 Post-Test New Build Sprint/Samsung 2.5 Post-Test Existing Cables							
AT&1 AT&1 C-Spi Clear Sprin Sprin Sprin Sprin Sprin Sprin	LTE 1: LTE 1: re/Erics Mire (Sate L'Alcate L'Alcate L'Samsu 2.5 M 2.5 N Samsu J'Samsu	2 Pair 8 Pair sson amsur Luce on I Luce on Jung NSN Jung 2. Jung 2.	ng nRRHv2)/I ent 5 Post-Tes 5 Post-Tes	Moto t New Build t Existing Ca	ibles			



Most of the functions of the UPM 100 will be controlled from within the OpTest software. Look to the left side of the window to view the power meter user interface.









	С	DN	1*		C	рте	est Re	epoi	rt	
Cu	stomer Name	Contact Nan	ne		Testing C	ompai	ny	Tes	ter's Nam	e
_										
Tes	st Location				Date/Time	•				
					7/2/2014	8:37 A	M			
-										
Cal	Die ID	Cable Length			Fibers Fro	om		Fib	ers To	
Co	mments				Pass/Fail	/Max:	OdBm //	dBm (Enabled	
					1000 1000	ITTICLA.	oublin /+			
Tes	st Equipment Model				Test Equi	pment	ID			
Tes UP UF	et Equipment Model 2M 100-02 2M 100 Test Data 5 Comment	Pass/Fail	850nm	Unit	Test Equi 1310nm	pment	1490nm	Unit	1550nm	Unit
Tes UP UF	et Equipment Model PM 100-02 PM 100 Test Data Comment	Pass/Fail	850nm	Unit	Test Equi 1310nm	pment Unit	1490nm	Unit	1550nm	Unit
Tes UP UF oc #	et Equipment Model PM 100-02 PM 100 Test Data Comment Alpha-Black-Sp	Pass/Fail Pass	850nm	Unit	Test Equi 1310nm	pment Unit	1490nm	Unit	1550nm 0.62	Unit dB
Tes UP UF 0c#	et Equipment Model PM 100-02 PM 100 Test Data Comment Alpha-Black-Sp Alpha-Blue	Pass/Fail Pass Pass Pass	850nm	Unit	Test Equi 1310nm	pment Unit	1490nm	Unit	1550nm 0.62 0.45	Unit dB dB
Tes UP UF 0c # 1 2 3 4	Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp	Pass/Fail Pass Pass Pass Pass	850nm	Unit	Test Equi	pment Unit	1490nm	Unit	1550nm 0.62 0.45 0.13 0.52	Unit dB dB dB
Tes UP UF 0 c # 1 2 3 4 5	Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Speen	Pass/Fail Pass Pass Pass Pass Pass	850nm	Unit	Test Equi	Unit	1490nm	Unit	1550nm 0.62 0.45 0.13 0.52 0.98	Unit dB dB dB dB
Tes UP UF 1 2 3 4 5 6	Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black Alpha-Black Alpha-Black Alpha-Black Alpha-Black Alpha-Black Alpha-Black Alpha-Black Alpha-Black Alpha-Black	Pass/Fail Pass Pass Pass Pass Pass Pass	850nm	Unit	Test Equi	Unit	1490nm	Unit	1550nm 0.62 0.45 0.13 0.52 0.98 1.49	Unit dB dB dB dB dB dB
Tes UP UF 2 3 4 5 6 7	Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Blue Alpha-Green Alpha-Brown Alpha-Brown Alpha-Brown	Pass/Fail Pass Pass Pass Pass Pass Pass Pass Pas	850nm	Unit	Test Equi	Unit	1490nm	Unit	1550nm 0.62 0.45 0.13 0.52 0.98 1.49 0.60	Unit dB dB dB dB dB dB dB
Tes UP UF 2 3 4 5 6 7 8	Alpha-Black-Sp Alpha-Black-Sp Alpha-Black Alpha-Black Alpha-Red-Sp Alpha-Green Alpha-Green Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate	Pass/Fail Pass Pass Pass Pass Pass Pass Pass Pas	850nm	Unit	Test Equi	Unit	1490nm	Unit	1550nm 0.62 0.45 0.13 0.52 0.98 1.49 0.60 0.43	Unit dB dB dB dB dB dB dB dB dB dB
Tes UP UF 1 2 3 4 5 6 7 8 9	Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black Alpha-Red-Sp Alpha-Blue Alpha-Green Alpha-Green Alpha-Slate Alpha-Slate Alpha-Slate Alpha-White Beta-Brown Slate_So	Pass/Fail Pass Pass Pass Pass Pass Pass Pass Pas	850nm	Unit	Test Equi	Unit	1490nm	Unit	1550nm 0.62 0.45 0.13 0.52 0.98 1.49 0.60 0.43 0.52	Unit dB dB dB dB dB dB dB dB dB dB dB dB dB
Tes UP UF 1 2 3 4 5 6 7 8 9	Alpha-Blue Alpha-Blue Alpha-Blue Alpha-Blue Alpha-Blue Alpha-Green Alpha-Brown Alpha-Slate Alpha-White Beta-BrownSlate-Sp Blata-GreenBrown-Sp	Pass/Fail Pass Pass Pass Pass Pass Pass Pass Pas	850nm	Unit	Test Equi	Unit	1490nm	Unit	1550nm 0.62 0.45 0.13 0.52 0.98 1.49 0.60 0.43 0.52 0.55	Unit dB dB dB dB dB dB dB dB dB dB dB dB dB
Tes UP UF 2 3 4 5 6 7 8 9 10	Alpha-Blue Alpha-Blue Alpha-Blue Alpha-Blue Alpha-Blue Alpha-Green Alpha-Brown Alpha-Slate Alpha-White Beta-BrownSlate-Sp Beta-Yellow	Pass/Fail Pass Pass Pass Pass Pass Pass Pass Pas	850nm	Unit	Test Equi	Unit	1490nm	Unit	1550nm 0.62 0.45 0.13 0.52 0.98 1.49 0.60 0.43 0.52 0.55 0.23	Unit dB dB dB dB dB dB dB dB dB dB dB dB dB
Tes UP UF 0c # 1 2 3 4 5 6 7 8 9 10 11	Alpha-Black-Sp Alpha-Black-Sp Alpha-Red-Sp Alpha-Red-Sp Alpha-Red-Sp Alpha-Red-Sp Alpha-Orange Alpha-Orange Alpha-Orange Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Vinite Beta-GreenBrown-Sp Beta-Yellow Beta-Yellow	Pass/Fail Pass Pass Pass Pass Pass Pass Pass Pas	850nm	Unit	Test Equi	Unit Unit	1490nm		1550nm 0.62 0.45 0.13 0.52 0.98 1.49 0.60 0.43 0.52 0.55 0.23 0.59	Unit dB dB dB dB dB dB dB dB dB dB dB dB dB
Tes UP UF 0c # 1 2 3 4 5 6 7 8 9 10 11 12 12	Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Blue Alpha-Orange Alpha-Orange Alpha-Orange Alpha-Orange Alpha-State Alp	Pass/Fail Pass Pass Pass Pass Pass Pass Pass Pas	850nm	Unit	Test Equi	Unit	1490nm		1550nm 0.62 0.45 0.13 0.52 0.98 1.49 0.60 0.43 0.52 0.55 0.23 0.58 0.44	Unit dB dB dB dB dB dB dB dB dB dB dB dB dB
Tes UP UF 1 2 3 4 5 6 7 8 9 10 11 12 13	Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Red-Sp Alpha-Red-Sp Alpha-Orange Alpha-Orange Alpha-Green Alpha-Brown Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Seta-GreenBrown-Sp Beta-Yellow Beta-Violet Beta-Rose Beta-Acun	Pass/Fail Pass Pass Pass Pass Pass Pass Pass Pas	850nm	Unit	Test Equi	Unit Unit	1490nm		1550nm 0.62 0.45 0.13 0.52 0.98 1.49 0.60 0.43 0.52 0.55 0.23 0.58 0.23 0.58 0.44 0.19	Unit dB dB dB dB dB dB dB dB dB dB dB dB dB
Tes UP UF 0 c # 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Red-Sp Alpha-Red-Sp Alpha-Green Alpha-Green Alpha-State Alpha-State Alpha-State Alpha-State Alpha-State Alpha-State Seta-SpownSlate-Sp Beta-GreenBrown-Sp Beta-Yellow Beta-Yellow Beta-Aqua Beta Aqua	Pass/Fail Pass Pass Pass Pass Pass Pass Pass Pas	850nm	Unit	Test Equi	Unit Unit	1490nm		1550nm 0.62 0.45 0.13 0.52 0.98 1.49 0.60 0.43 0.52 0.55 0.23 0.55 0.23 0.58 0.44 0.10	Unit dB dB dB dB dB dB dB dB dB dB dB dB dB
Tes UP UF 0c # 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Blue Alpha-Orange Alpha-Green Alpha-Green Alpha-Brown Alpha-Slate Alpha-Slate Alpha-White Beta-BrownSlate-Sp Beta-GreenBrown-Sp Beta-Yellow Beta-Nolet Beta-Rose Beta-Aqua Beta-BlueOrange	Pass/Fail Pass Pass Pass Pass Pass Pass Pass Pas	850nm	Unit	Test Equi	Unit Unit	1490nm 1490nm		1550nm 0.62 0.45 0.13 0.52 0.98 1.49 0.60 0.43 0.52 0.55 0.23 0.55 0.23 0.58 0.44 0.18 0.19	Unit dB dB dB dB dB dB dB dB dB dB dB dB dB
Tes UP UF 0c # 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Blue Alpha-Orange Alpha-Green Alpha-Green Alpha-Slate Alpha-Slate Alpha-White Beta-BrownSlate-Sp Beta-Yellow Beta-Violet Beta-Violet Beta-Aqua Beta-Aqua Beta-BlueOrange Beta-CrangeGreen	Pass/Fail Pass Pass Pass Pass Pass Pass Pass Pas	850nm	Unit	Test Equi	Unit Unit	1490nm 1490nm		1550nm 0.62 0.45 0.13 0.52 0.98 1.49 0.60 0.43 0.52 0.55 0.23 0.55 0.23 0.58 0.44 0.18 0.19 0.44	Unit dB dB dB dB dB dB dB dB dB dB dB dB dB
Tes UP UF 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Red-Sp Alpha-Blue Alpha-Orange Alpha-Green Alpha-Green Alpha-Slate Alpha-Slate Alpha-White Beta-BrownSlate-Sp Beta-GreenBrown-Sp Beta-Yellow Beta-Violet Beta-Aqua Beta-Aqua Beta-DrangeGreen Gamma-AquaBlue-Sp	Pass/Fail Pass Pass Pass Pass Pass Pass Pass Pas	850nm	Unit	Test Equi	Unit Unit	1490nm	Unit	1550nm 0.62 0.45 0.13 0.52 0.98 1.49 0.60 0.43 0.52 0.55 0.23 0.55 0.23 0.55 0.23 0.58 0.44 0.18 0.19 0.44 0.94	Unit dB dB dB dB dB dB dB dB dB dB dB dB dB
Tes UP UF 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Alpha-Black-Sp Alpha-Black-Sp Alpha-Red-Sp Alpha-Red-Sp Alpha-Red-Sp Alpha-Orange Alpha-Orange Alpha-Orange Alpha-Slate Alpha-White Beta-BrownSlate-Sp Beta-GreenBrown-Sp Beta-Yellow Beta-Violet Beta-Rose Beta-Aqua Beta-BlueOrange Beta-OrangeGreen Gamma-AquaBlue-Sp Gamma-RoseAqua-Sp	Pass/Fail Pass Pass Pass Pass Pass Pass Pass Pas	850nm	Unit	Test Equi	Unit Unit	1490nm		1550nm 0.62 0.45 0.13 0.52 0.98 1.49 0.60 0.43 0.52 0.55 0.23 0.55 0.23 0.58 0.44 0.18 0.19 0.44 0.94 1.35	Unit dB dB dB dB dB dB dB dB dB dB dB dB dB
UP UF 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 17 18	Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Red-Sp Alpha-Red-Sp Alpha-Blue Alpha-Orange Alpha-Slate Alpha-Slate Alpha-Slate Alpha-White Beta-BrownSlate-Sp Beta-GreenBrown-Sp Beta-Yellow Beta-Yellow Beta-Yellow Beta-Yellow Beta-Yellow Beta-Yellow Beta-Spe Beta-Aqua Beta-SlueOrange Beta-Aqua Beta-BlueOrange Beta-Aqua Beta-BlueOrange Beta-Aqua Beta-SheeOrange Beta-Aqua Beta-BlueOrange Beta-Aqua Beta-BlueOrange Beta-Aqua Beta-BlueOrange Beta-Aqua-Sp Gamma-SlateWhite	Pass/Fail Pass Pass Pass Pass Pass Pass Pass Pas	850nm	Unit	Test Equi	Unit Unit	1490nm		1550nm 0.62 0.45 0.13 0.52 0.98 1.49 0.60 0.43 0.52 0.55 0.23 0.55 0.23 0.58 0.44 0.18 0.19 0.44 0.94 1.35 1.50	Unit dB dB dB dB dB dB dB dB dB dB dB dB dB
Tes UP UF 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Black-Sp Alpha-Blue Alpha-Red-Sp Alpha-Grange Alpha-Grange Alpha-Grange Alpha-Grange Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Alpha-Slate Beta-GreenBrown-Sp Beta-Yellow Beta-Violet Beta-Violet Beta-Aqua Beta-BlueOrange Beta-OrangeGreen Gamma-AquaBlue-Sp Gamma-SlateWhite Gamma-WhiteRed	Pass/Fail Pass Pass Pass Pass Pass Pass Pass Pas	850nm	Unit	Test Equi	Unit Unit	1490nm		1550nm 0.62 0.45 0.13 0.52 0.98 1.49 0.60 0.43 0.52 0.55 0.23 0.58 0.44 0.18 0.19 0.44 0.19 0.44 1.35 1.50 0.99	Unit dB dB dB dB dB dB dB dB dB dB dB dB dB

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IV. inSpec for Windows

The inSpec software for devices running Windows Vista, 7, and 8 will allow the user to fully control the measurement settings of the UPM 100 and save dB loss or absolute power measurements directly to their fiber endface images.

1				ODM inSpec			- • ×
Main	Reports	Test Settings	Report Settings	Pass/Fail Settings	Help		
VIS F Site Los	teport s Report	A-SC-B-3-Ajpg	A-SC	B-3-B.jpg			
Image	Report						
Change	Folder						
Clear Che	eck Boxes						
Power Meter 0.03dB Sa	<mark>λ 850nm</mark> ve						- 1
Hc	ld						
dB Set F	¢ ≷ef ∽						
UPM-100 connection s	uccessful					📒 Image Folder: C:\Users\N	lathaniel\Desktop\New folder (2)

When the inSpec software is open and the UPM 100 is successfully connected to the computer, a message reading "UPM - 100 connection successful" (outlined in red above) will appear in the bottom left corner of the inSpec window.

Before beginning dB loss tests, the appropriate dB loss budget should be set in the software. Navigate to the "Pass/Fail Settings" tab to access the window shown below. Click "Enable" next to the wavelength to be tested, then use the Minimum and Maximum fields to set your loss budget. Return to the "Reports" tab to begin testing.

				ODM inSpec				-
Main	Reports	Test Settings	Report Settings	Pass/Fail Settings	Help			
Power	Meter Pass/Fai 850 λ	Settings		1310 λ				
	Minimum 0.0	D <	> Zero	Minimum 0.0	٢	>	Zero	
	Maximum 3.() <	> Zero	Maximum 3.0	<	>	Zero	
	🗌 Enable	e vrdB ⊡d	Bm	Enable	✔ dB	🗌 dBm		
	1490 λ			1550 λ				
	Minimum 0.	D <	> Zero	Minimum 0.0	۲.	>	Zero	
	Maximum 3.	0 <	> Zero	Maximum 4.0	۲.	>	Zero	
	Enable	e v∎dB d	Bm	✓ Enable	✓ dB	🔲 dBm		
	Enable Real Tir	ne Pass/Fail						



Most of the functions of the UPM 100 will be controlled from within the inSpec software. Look to the bottom left side of the window to view the power meter user interface.



This drop-down box allows the user to set the measurement units the software will display. The options are as follows:

dB - for insertion loss measurements dBm - for absolute power measurements dB Set Ref - used to "zero" the unit The "Hold" button will freeze the current measurement on screen. When clicked, the text on this button will change to "Read." When "Read" is clicked, the measurement will return to a live reading.





buttons to obtain and save a passing measurement.

pressed. Use this box to choose the location to which the loss reading will be saved. When "Always Just Trunk" is selected, the measurement will be saved as a trunk reading only.

	inS	pec Loss Report				
		ec [™] Loss Report				
	Custom Report Date: 9:46:	er Company Name 30 AM Wednesday, July 2,	2014			
Parameter	Test Data	Parameter	Test Data			
File Name	A-SC-B-3-A.vis	File Name	A-SC-B-3-B.via			
Testing Company	Testing Company Name	Testing Company	Testing Company Name			
Tester's Name	Tester Name	Tester's Name	Tester Name			
Test Location	Test Location	Test Location	Test Location			
Fibers From	Fibers From	Fibers From	Fibers From			
Fibers To	Fibers To	Fibers To	Ribers To			
Loss - Trunk Cable	1.07dB \lambda 1550nm	Loss - Trunk Cable	1.07dB λ 1550nm			
Loss - Trunk/Sector	Not Saved	Loss - Trunk/Sector	Not Saved			
Comment	Comment	Comment	Comment			
		Save as JPEG	Print Close			



V. Technical Support

If you need technical assistance or have specific questions about any procedures or guidelines in this guide, please contact our technical support team:

During Business Hours

8AM to 5PM Eastern Standard Time Please call us at 603-524-8350

Evenings/Weekends

Email us at <u>tech.support@odm-inc.com</u> Please include your phone number and we will contact you.

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