

The CX300 ComXpert is an easy to use, complete communications test solution capable of testing everything from portable radios, to complex infrastructure, to broadband networks. The CX300 incorporates the most popular features from our industry leading test sets into a field portable package without sacrificing specs or performance.

#### At A Glance

• Dimensions: 12.2 in x 9.5 in x 4.5 in

30.9 cm x 24.1 cm x 11.3 cm

• Display Size: 10 inches (25.4 cm), diagonal

• Weight: 15 lbs (6.8 kg), Base Unit

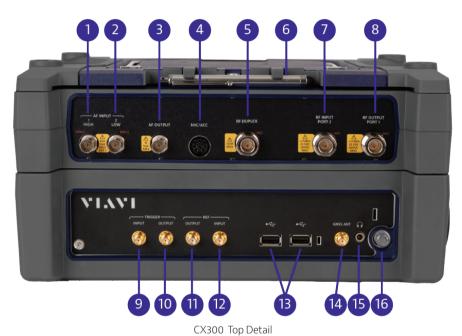
Internal, 2.25+ Hours Operation • Batterv:

• Rugged: 30 G Shock

• Test Range: -140 dBm to +17 dBm

• Frequency Range: 100 kHz to 6 GHz

• Technologies: Analog, P25, P25 Phase 2, DMR



1. AF Input High

9. Trigger Input

2. AF Input Low

10. Trigger Output

3. AF Output

11. Reference Output

4. Microphone

12. Reference Input

5. RF Duplex

13. USB Port (2)

6. Stylus

14. GNSS Antenna

7. RF Input Port 2

15. Earphone Port

8. RF Output Port 1

16. Power Button



CX300 Side Detail

1. SD Card

2. Ethernet

3. USB Port

4. Power Jack

### **Standard Features**

The below list of features come standard on every CX300.

- 3 GHz frequency range
- Spectrum Analyzer
- Tracking Generator
- WiFi
- VNC
- GPS
- Smart Access Anywhere
- StrataSync
- Remote Command Interface
- Bluetooth
- Foreign Language GUI: Simplified Chinese



# **Optional Features**

The below features are options available on the CX300.

- Frequency Range up to 6 GHz
- P25
- P25 Phase 2
- Auto-Test Applications
- Bird Power Meter
- Cable and Antenna Analysis
- DMR
- TETRA Parametric

# A Complete Test Suite

The global land mobile radio (LMR) market is rapidly transitioning from analog to digital. The CX300 is designed with advanced frequency, power, and modulation analysis instruments for both analog and digital systems.

# The CX300 Instruments and Technologies Currently Available

- AM/FM/PM/SSB
- P25 Phase 1
- P25 Phase 2
- LSM
- Channel Analyzer
- Spectrum Analyzer
- Tracking Generator
- DMR
- Vector Network Analyzer
- TETRA Parametric BS
- TETRA Parametric MS
- P25 Vocoder
- AES/DES Encryption
- Keyloader

# CX300 Instruments and Technologies Coming Soon

NXDN

- LTE
- P25 Trunking
- Two-port Vector Network Analyzer

#### Innovative User Interface

An industry-first multi-tab user interface allows you to instantly switch between test setups without having to reload settings. This user interface is similar to an internet browser with the ability to switch between test setups with a push of a button. The revolutionary QuickSwitch™ feature makes testing quick and easy by allowing you to rapidly switch between the Duplex, Transmit, and Receiver Tests without leaving the current test measurement setups. QuickSwitch is available in analog, P25, and DMR testing modes.



Multi-Tab User Interface with QuickSwitch

### **P25 Test Features (Optional)**

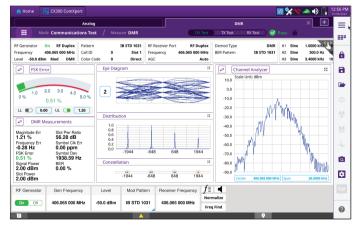
The CX300 provides many P25 test features, including Linear Simulcast Modulation. The large display provides access to the distribution plot, eye diagram, constellation plot, and trajectory plot displays for in-depth modulation analysis. You can view multiple plots simultaneously, or can enlarge a specific plot to full screen for detailed viewing. Measurements are displayed in an easy to read format.



P25 Diagrams and Plots

## **DMR Test Features (Optional)**

The CX300, when equipped with the DMR Option, allows you to test a wide range of DMR infrastructure and subscribers. The large display provides access to the distribution plot, eye diagram, constellation plot, and burst profile plot displays for in-depth modulation analysis. DMR measurements are displayed in an easy to read format.



**DMR Test Screens** 

### **TETRA Test Features (Optional)**

The CX300, when equipped with the TETRA Option, allows you to test a wide range of TETRA radios, mobile and base stations. TETRA measurements are displayed in an easy to ready format.

## **Cable and Antenna Analysis (Optional)**

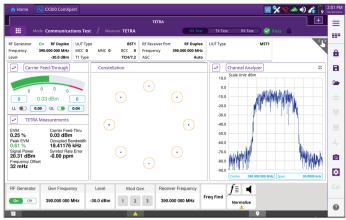
The CX300 Cable and Antenna Analysis Option allows you to test Distance to Fault, VSWR, and Return Loss using the built-in Vector Network Analyzer in a 1-port configuration. This option requires the Short-Open-Load Calibrator for calibrated measurements.

## **Auto-Test (Optional)**

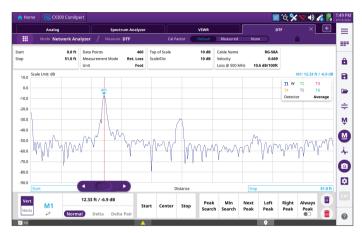
The CX300 is designed for complete automated radio test and alignment for analog and digital radios. Using the accurate instrumentation and high-speed remote command architecture, the CX300 optimizes radio performance in minutes with minimal human interaction.

The CX300 supports numerous automated test and alignment options. Customize test sequences and parameters to fit your testing needs. Once your test is configured, the CX300 allows you to view the test progress and the test results at the same time.

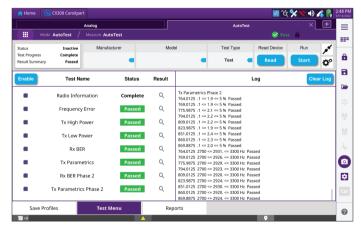
Test results are automatically stored and can be exported through USB to an external PC for printing and for documentation purposes. Your test data can also be uploaded to VIAVI StrataSync or transferred to a PC or portable device utilizing the Smart Access Anywhere app.



TETRA Test Screens



Cable and Antenna Analysis Screens



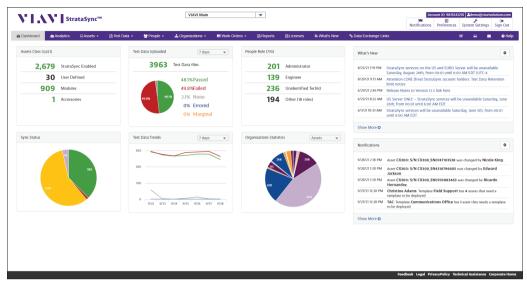
Auto-Test Screens

## **VIP Tool (Optional)**

The VIP Tool removes unnecessary complexities with traditional instrument programming by leveraging the power of Microsoft Excel. It is scalable, allowing you to create scripts that are as simple or as intricate as you desire. This tool allows you to easily create and export easy-to-read reports with supporting graphics, like Channel Analyzer and Distribution Plots. Work smarter, not harder with the VIP Tool.

## StrataSync

StrataSync is a hosted, cloud-based software application that provides asset configuration and test-data management from anywhere in the world. The wireless technology in the CX300 lightens your workload by synchronizing your test results to the cloud and keeping your test set updated with the latest software. Easily save and access test results for both manual and automated tests.



StrataSync Dashboard

## **Smart Access Anywhere**

The VIAVI Smart Access Anywhere application is a handy tool for remotely controlling the CX300. The SAA App enables remote operation from your PC or portable device, which allows your to operate the unit and transfer files from a remote location.



Smart Access Anywhere

# **Ordering Information**

/ersions and Opt					
Order Number	Description CV200 CoreVenert				
CX300	CX300 ComXpert Communications Service Monitor				
	Standard Accessories				
	AC / DC Power Adapter  AC Power Cord - US				
	AC Power Cord - China				
	AC Power Cord - Europe				
	AC Power Cord - UK				
	Internal Battery, 98 Watt-Hour, Lithium-lon (Qty 2)				
	Front Cover				
	Desktop Stand				
	Shoulder Strap				
	Side Strap (Qty 2)				
	Stylus				
	Adapter, N(m) to BNC(f) (Qty 3)				
	StrataSync				
	Smart Access Anywhere				
Options					
CX300-DDMR	DMR Test Option				
CX300-DDMRR	DMR Repeater (Requires DMR)*				
CX300-DP25P1	P25 Conventional (Phase 1)				
CX300-DP25P2	P25 Phase II (Requires P25 Phase 1				
CX300-DTPB	TETRA Parametric Base Station				
CX300-DTPM	TETRA Parametric Mobile Station				
CX300-F6GHZ	6 GHz Range Extension				
CX300-SCAA	Cable and Antenna Analysis (1-port Vector Network Analyzer)				
CX300-SENC	(Requires CX300-ASOL)				
CX300-SENC	Software AES and DES Encryption  Keyloader Option				
CX300-SVEY	Keyloader Option				
	Vocoder Option  External Power Sensor Support				
CX300-SPSB	External Power Sensor Support, BirdRF 501xD				
CX300-SVIP	VIP Tool				
CX300-SVNA	Vector Network Analyzer (2-port, 1-path)*				

Auto-Test and Alignment							
P25 Radios (Requires CX300-DP25P1)							
CX300-TPBK	BK KNG Series						
CX300-TPHP25	L3Harris P25 Series (P7300, M7300,						
	P5500, XG-75 Series)						
CX300-TPHXL	L3Harris XL Series						
CX300-TPIP25	ICOM P25 Series						
CX300-TPKV	Kenwood Viking Series						
CX300-TPMA	Motorola APX Series						
CX300-TPMA25	Motorola ASTRO 25 XTS / XTL Series						
CX300-TPMAN	Motorola APX Next Series (Requires CX300-TPMA)						
CX300-TPTPM	Tait P25 Series (Test Only)						
DMR Radios (Req	uires CX300-DDMR)						
CX300-TDM	Motorola MOTOTRBO Series						
CX300-TDTPM	Tait DMR Series (Test Only)						
	Multi-Protocol Radios (Requires CX300-DP25P1 or CX300-DDMR)						
CX300-TMKNX	Kenwood NX-X000 Series						
Recommended A	ccessories						
CX300-AANT1	Antenna Kit, 1 GHz						
CX300-ABAT	Internal Battery, 98 Watt-Hour, Lithium-Ion						
CX300-ACBL	RF Cable for AutoAlignment						
CX300-ACH	Carrying Case, Hard Transit						
CX300-ACS	Carrying Case, Soft						
Optional Accesso	ries						
CX300-ABATC	External Battery Charger						
CX300-ACB	Carrying Case, Backpack						
CX300-ACS10	10 Amp Current Shunt 0.01 Ohm						
CX300-ADC	Power Adapter, Automotive DC / DC (Cigarette Lighter)						
CX300-AGPS	GNSS / GPS SMA Mount Antenna						
CX300-AMIC	Microphone						
CX300-ASOL	Calibrator (Short-Open-Load)						
20327	Adapter, N(m) to BNC(f) (Qty 3)						
82556	Attenuator (6 dB / 150 W), 1.5 GHz						
92793	Bird 5017D Wideband RF Power Sensor						

140227	Attenuator (40 dB / 2 W), 18 GHz,					
	Type N					
22124982	Side Strap (Qty 2)					
22136776	Front Cover					
22141588	Shoulder Strap					
22152084	Desktop Stand					
Calibration Certificates						
CX300-C9001	Calibration Certificate with					
	Test Data (ISO 9001)					
Care Support Plans						
SilverCare (Includes Extended Warranty and Calibration Plan)						
CX300-SILVER-3	SilverCare - First 3 Years					
CX300-SILVER-5	SilverCare - First 5 Years					

MaxCare (Includes Extended Warranty, Calibration Plan, Loaner, and Accessory Replacement)					
CX300-MAXCARE-3	MaxCare - First 3 Years				
CX300-MAXCARE-5	MaxCare - First 5 Years				
Certified Calibration Care Plan Add-ons (Requires corresponding SilverCare/MaxCare Plan)					
CERT-CAL-DATA-3	Certified Calibration Data - Pre and Post Cal Data Report for Care Plans - First 3 Years				
CERT-CAL- DATA-5	Certified Calibration Data - Pre and Post Cal Data Report for Care Plans - First 5 Years				
Training					
Contact us for Training and Support Options					

<sup>\*</sup>Coming Soon

### **VIAVI Care Support Plans**

#### Increase your productivity for up to 5 years with optional VIAVI Care Support Plans:

- Maximize your time with on-demand training, priority technical application support and rapid service.
- Maintain your equipment for peak performance at a low, predictable cost.

Plan availability depends on product and region. Not all plans are available for each product or in every region. To find out which VIAVI Care Support Plan options are available for this product in your region, contact your local representative or visit: <a href="viavisolutions.com/viavicareplan">viavisolutions.com/viavicareplan</a>

#### **Features**

\*5-year plans only

Plan	Objective	Technical Assistance	Factory Repair	Priority Service	Self-paced Training	5 Year Battery and Bag Coverage	Factory Calibration	Accessory Coverage	Express Loaner
BronzeCare	Technician Efficiency	Premium	✓	<b>√</b>	<b>√</b>				
SilverCare	Maintenance & Measurement Accuracy	Premium	✓	✓	✓	<b>√</b> *	✓		
MaxCare	High Availability	Premium	✓	<b>√</b>	✓	<b>√</b> *	✓	✓	<b>√</b>



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CX300-br-rts-nse-ae
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