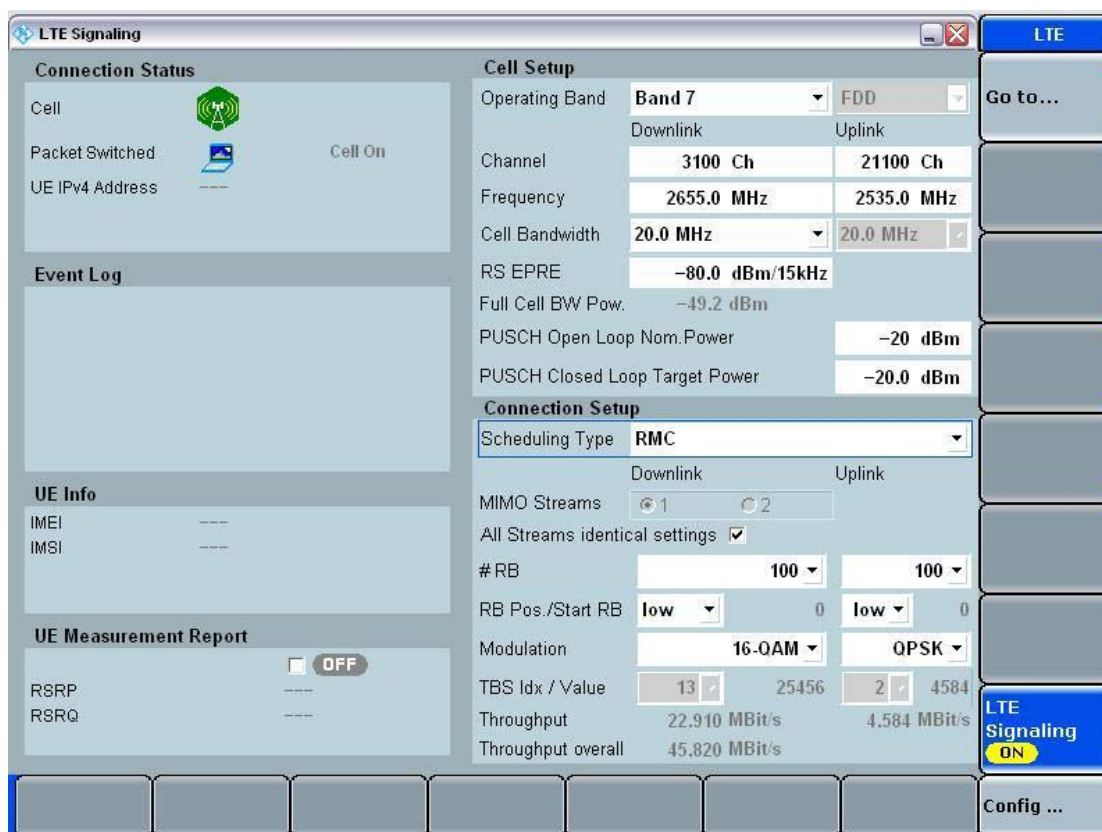


无屏幕的 CMW500 简单操作手册及快捷键手册

第一步：使用 DVI 连接线连接 CMW500 和带有 DVI 接口的显示器。



第二步：将 CMW500 开机，开机完成之后，请利用键盘按“CTRL+G”，然后选择 LTE Signalling 功能。

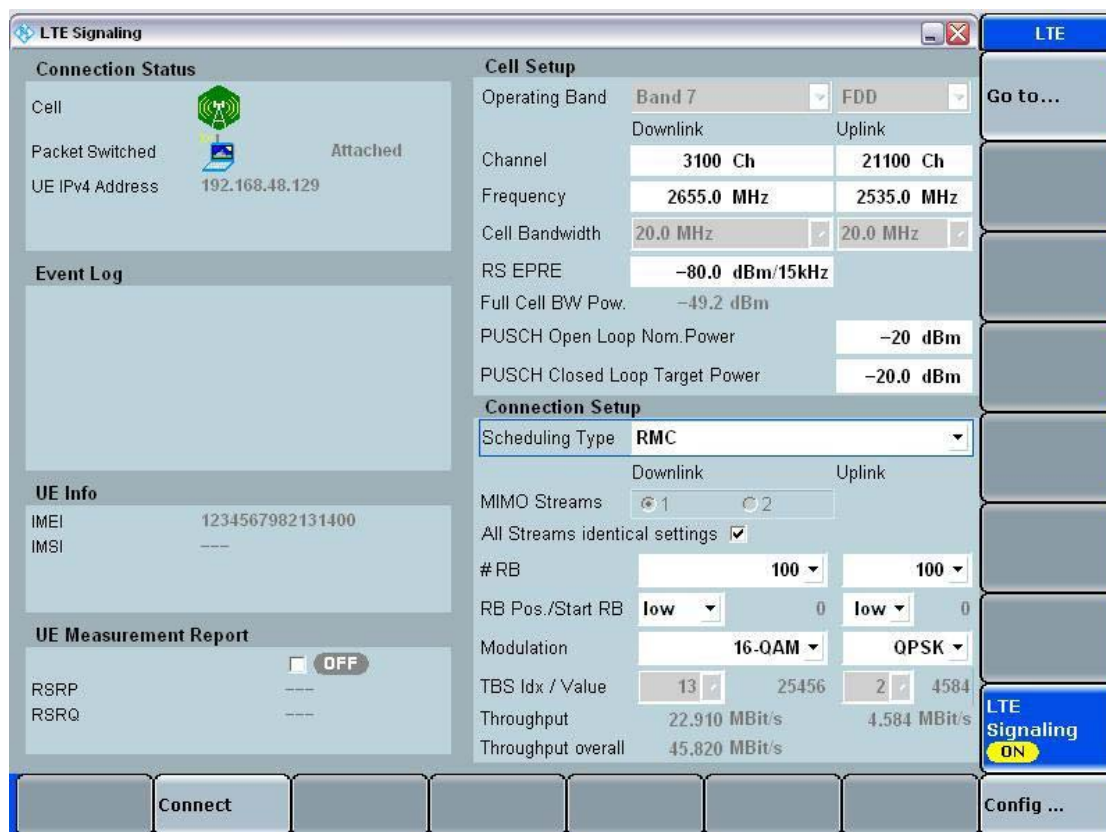


第三步：可设定您要连线的 Operating Band 以及 Channel。

第四步：在 Signalling 画面选择 LTE Signalling, 按下 “CTRL+Enter” 将 LTE 信号打开。

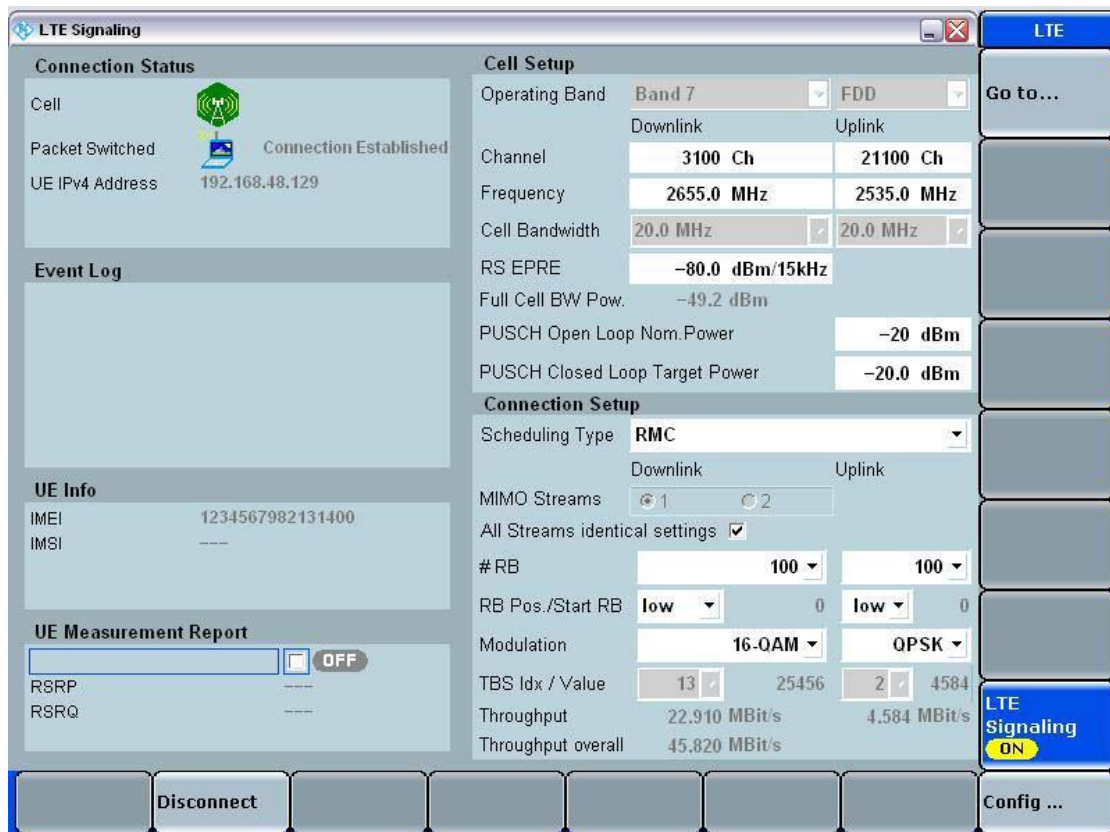
第五步：此时 CMW500 已经开始模拟 LTE 基站发射 LTE 信号。

第六步：请把 LTE DUT 打开，基本上 DUT 即可注册 CMW500。



选择 Connect 即可连线。

CMW500 w/o DISPLAY QUICK START



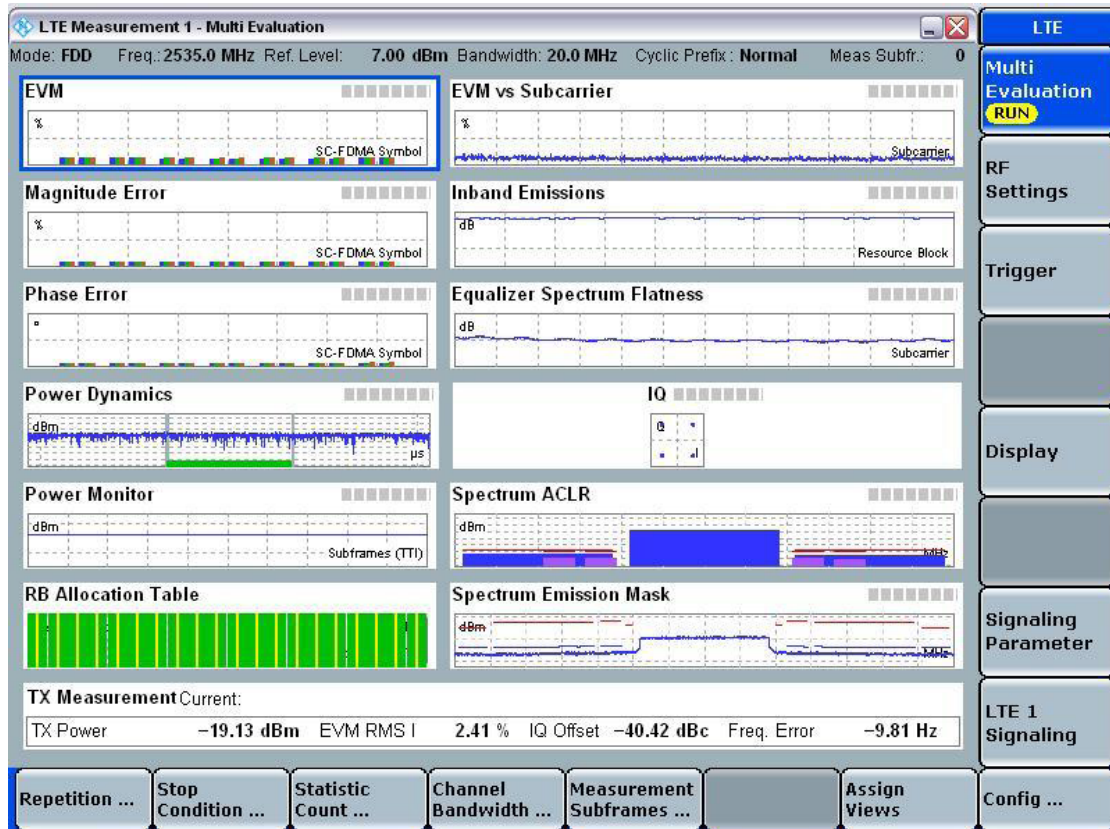
第七步：连上线后可以在 CMW500 看到 Connection Established, 此时在画面右边可看到"Go to " or "LTE Multi Eval", 如出现"Go to" 按下后可看到 Go to Measurement Menu, 即可选择测试项目



若出现“LTE Multi Eval”，按下后即可直接进入测试

第八步：如选择 LTE Multi Evaluation, 可看到 LTE Tx measurement

CMW500 w/o DISPLAY QUICK START



第九步：选择 LTE Extended BLER, 可看到 LTE Rx measurement



可按下 Signaling parameter 来调整 Modulation 方式,下方的 Throughput 会动态改变,若要测量最大的 Throughput,需要把 RMC 改成 User define mode。

The screenshot displays the LTE BLER software interface. The main window shows a throughput graph with 'Overall', 'Stream 1', and 'Stream 2' data series. A 'Connection Setup' dialog box is open, showing the following configuration:

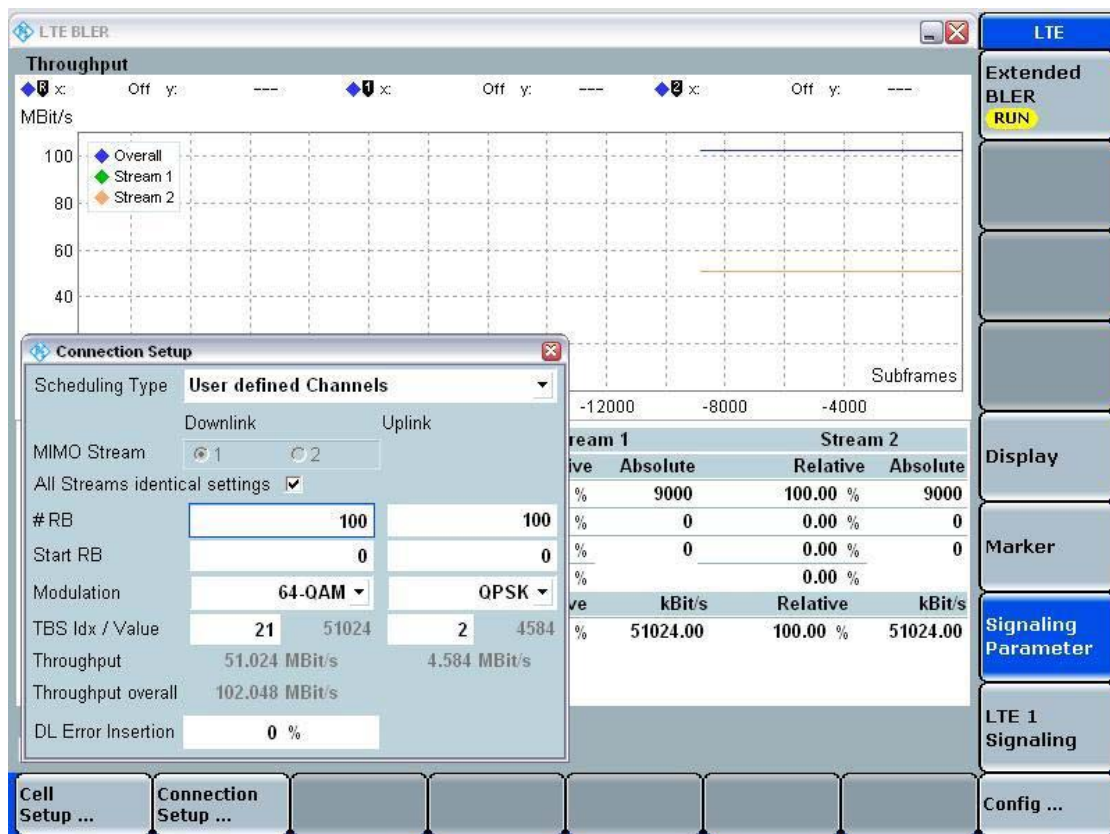
- Scheduling Type: RMC
- MIMO Streams: 1
- All Streams identical settings: checked
- # RB: 100 (Downlink), 100 (Uplink)
- RB Pos./Start RB: low, 0 (Downlink), low, 0 (Uplink)
- Modulation: 16-QAM (Downlink), QPSK (Uplink)
- TBS Idx / Value: 13 / 25456 (Downlink), 2 / 4584 (Uplink)
- Throughput: 22.910 MBit/s (Downlink), 4.584 MBit/s (Uplink)
- Throughput overall: 45.820 MBit/s
- DL Error Insertion: 0 %

Below the dialog, a table shows throughput data for Stream 1 and Stream 2:

	Stream 1		Stream 2	
	Absolute	Relative	Absolute	Relative
Throughput	19800	99.98 %	19797	99.98 %
Throughput error	0	0.02 %	3	0.02 %
Throughput overall	22910.00	99.98 %	22906.53	99.98 %

The interface also includes a right-hand sidebar with buttons for 'Extended BLER RUN', 'Display', 'Marker', 'Signaling Parameter', 'LTE 1 Signaling', and 'Config ...'. At the bottom, there are buttons for 'Cell Setup ...' and 'Connection Setup ...'.

CMW500 w/o DISPLAY QUICK START



即可直接测试 LTE Max throughput.(附图为 MIMO,OL spatial multiplexing)

CMW500 w/o DISPLAY QUICK START

LTE BLER
Extended BLER RDY

Throughput

MBit/s















Subframes

	Over All		Stream 1		Stream 2	
	Relative	Absolute	Relative	Absolute	Relative	Absolute
ACK	100.00 %	60000	100.00 %	30000	100.00 %	30000
NACK	0.00 %	0	0.00 %	0	0.00 %	0
DTX	0.00 %	0	0.00 %	0	0.00 %	0
BLER	0.00 %		0.00 %		0.00 %	
Throughput	Relative	kBit/s	Relative	kBit/s	Relative	kBit/s
Average	100.00 %	102048.00	100.00 %	51024.00	100.00 %	51024.00
Minimum		102048.00				
Maximum		102048.00				

Subframes Scheduled: 30 000 / 30000 30000

Cell Setup ...
Connection Setup ...
Config ...

CMW500 快捷方式

	Key	Dialog Opened	Shortcut
 RESET	RESET	Reset	Ctrl + R
 INFO	INFO	Info	Ctrl + I
 SAVE RECALL	SAVE	Save/Recall	Ctrl + S
 SETUP	SETUP	Setup	Ctrl + E
 PRINT	PRINT	Print	Ctrl + P
 HELP	HELP	Help	F1
 DEVICE	DEVICE	Instrument Setup	Ctrl + D
 FAVORITE	FAVORITE	Favorites (for future extension)	Ctrl + F
 BLOCK VIEW	BLOCK VIEW	Block View (for future extension)	Ctrl + B
 MEASURE	MEASURE	Measurement Controller	Ctrl + M
 SIGNAL GEN	SIGNAL GEN	Generator/Signaling Controller	Ctrl + G
 ON OFF	ON OFF	Switch generator or signaling generator on or off	Ctrl + Enter, Ctrl + Return
 RESTART STOP	ON OFF or RESTART STOP	Switch measurement on or off	Ctrl + Enter, Ctrl + Return
 TASKS	TASKS	Task Bar	Ctrl + Tab