

## Command for spectrum scanning



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Use this command to start the Spectrum Analyzer.

### Syntax:

#1> *xgscan* [*arguments*]

```
#xgscan usage:
  xgscan -freq {<freq_start>[-<freq_end>[/<step>]],...}
  xgscan -rx-input {a, b, c}
  xgscan -duration {10...10000}
  xgscan -last
  xgscan -last [-web]
  xgscan -stream {V, H}
```

Commands and options description is given in the table below

Command	Description
<i>xgscan -freq {&lt;freq_start&gt;[-&lt;freq_end&gt;[/&lt;step&gt;]],...}</i>	<ul style="list-style-type: none"><li>• First (minimum) and last (maximum) frequency for scanning, scanning frequency step</li><li>• It is recommended to set 1 MHz step value to get the more precise scanning results. Please note, the smaller the step, the more time it takes to scan. In order to detect the interference it is sufficient to set the step equal to the used bandwidth</li></ul>
<i>xgscan -duration {10...10000}</i>	<ul style="list-style-type: none"><li>• Scanning duration of one frequency in milliseconds</li></ul>
<i>xgscan -last</i>	<ul style="list-style-type: none"><li>• Final scanning results (stored until the reboot). From firmware version "v1.6.7" results available after reboot</li></ul>
<i>xgscan -last [-web]</i>	<ul style="list-style-type: none"><li>• Final scanning results from web interface (stored until the reboot). From firmware version "v1.6.7" results available after reboot</li></ul>
<i>xgscan -stream {V, H}</i>	<ul style="list-style-type: none"><li>• Polarization:<ul style="list-style-type: none"><li>• "V" - vertical</li><li>• "H" - horizontal</li></ul></li></ul>

Table - "xgscan" commands and options description

```
master_30.246#2> xgscan -freq 4900-6000/1 -duration 10 -stream H
freq      average, dBm / peak, dBm
4900      -99 / -92  [|||||]
4901      -99 / -92  [|||||]
4902      -99 / -92  [|||||]
4903      -99 / -92  [|||||]
4904      -99 / -92  [|||||]
4905      -99 / -92  [|||||]
4906      -99 / -92  [|||||]
4907      -99 / -92  [|||||]
4908      -99 / -92  [|||||]
4909      -99 / -92  [|||||]
4910      -99 / -92  [|||||]
4911      -99 / -92  [|||||]
4912      -99 / -92  [|||||]
4913      -99 / -92  [|||||]
4914      -99 / -92  [|||||]
4915      -99 / -92  [|||||]
4916      -99 / -92  [|||||]
4917      -99 / -92  [|||||]
4918      -99 / -92  [|||||]
4919      -99 / -92  [|||||]
4920      -99 / -92  [|||||]
4921      -99 / -92  [|||||]
4922      -99 / -92  [|||||]
4923      -99 / -92  [|||||]
```

Figure - "xgscan" output example

```

master_30.246#2> xgscan -last
Last measures:
  freq / average / peak
4930   -98 /   -88 [|||||] ]
4940   -98 /   -88 [|||||] ]
4950   -98 /   -88 [|||||] ]
4960   -98 /   -88 [|||||] ]
4970   -98 /   -88 [|||||] ]
4980   -98 /   -88 [|||||] ]
4990   -98 /   -88 [|||||] ]
5000   -98 /   -88 [|||||] ]
5010   -98 /   -88 [|||||] ]
5020   -98 /   -88 [|||||] ]
5030   -98 /   -88 [|||||] ]
5040   -98 /   -88 [|||||] ]
5050   -98 /   -88 [|||||] ]
5060   -98 /   -88 [|||||] ]
5070   -98 /   -88 [|||||] ]
5080   -98 /   -88 [|||||] ]
5090   -98 /   -88 [|||||] ]
5100   -98 /   -88 [|||||] ]
5110   -98 /   -88 [|||||] ]
5120   -98 /   -88 [|||||] ]
5130   -98 /   -88 [|||||] ]
5140   -98 /   -88 [|||||] ]
5150   -98 /   -88 [|||||] ]
5160   -98 /   -88 [|||||] ]
5170   -98 /   -87 [|||||] ]
5180   -98 /   -87 [|||||] ]
5190   -98 /   -86 [|||||] ]
5200   -98 /   -84 [|||||] ]
5210   -98 /   -85 [|||||] ]
5220   -98 /   -86 [|||||] ]
5230   -98 /   -87 [|||||] ]
5240   -98 /   -88 [|||||] ]
5250   -98 /   -88 [|||||] ]
5260   -98 /   -87 [|||||] ]
5270   -98 /   -85 [|||||] ]
5280   -98 /   -82 [|||||] ]
5290   -97 /   -81 [|||||] ]
5300   -98 /   -81 [|||||] ]
5310   -98 /   -82 [|||||] ]
5320   -98 /   -84 [|||||] ]
5330   -98 /   -86 [|||||] ]
5340   -98 /   -87 [|||||] ]

```

Figure - "xgscan -last" output example

```
master_30.246#2> xgscan -capabilities
xgs status: available
xgs capabilities for #0 carrier

available freq: 4900-6000 MHz
steps for web (MHz): 1, 2, 5, 10, 20, 40, 80, 100
bands for web (MHz): *40
grid widths (MHz): 2, 5, 10, 20, 40

all available freq for use:
4930, 4940, 4950, 4960, 4970, 4980, 4990, 5000, 5010, 5020, 5030, 5040,
0, 5330, 5340, 5350, 5360, 5370, 5380, 5390, 5400, 5410, 5420, 5430, 544
5720, 5730, 5740, 5750, 5760, 5770, 5780, 5790, 5800, 5810, 5820, 5830,
```

Figure - "xgscan -capabilities" output example