

Tetley Hydra 2G/3G/4G/5G Network Characterization and Non-Alerting Handset Stimulation

FEATURES

- Embedded Linux computer
- Web-based GUI
- Wireless access point for remote command and control
- Integrated Gigabit Ethernet port for wired access and control
- Front USB 3.0 ports (2) for connecting included THKs and rapid exporting logs.

KIT CONTENTS

- Custom Fitted Pelican Case
- 2x Tetley Handy Kits
- AC/DC Power Supply
- 2x Adjustable Phone Stands
- 2x USB-C to USB-A Fast Chargers
- Ethernet Cable (10ft)
- 32GB USB 3.0 Recovery Flash Drive

APPLICATIONS

- Advanced Cellular Network Characterization (with active SIM)
 - Multiple MNOs simultaneously
 - Multiple RATs simultaneously (of same MNO)
- Handset Characterization
 - Handset Stimulation w/ Scheduling
 - Handset Correlation *requires connected collection system
 - Handset Status

DESCRIPTION

Utilizing G3 Technologies' proprietary Non-Alerting Techniques (NAT), the TETLEY HYDRA allows an operator to perform precise network characterization on cellular networks. The included Tetley Handy network survey handset(s), when equipped with a mobile network operators' (MNO) SIM card, achieve accurate network measurements. Precision analysis of the networks allow the user to better place, task, and employ data gathering resources. For Law Enforcement (LE) users, the TETLEY HYDRA greatly enhances their ability to employ CALEA data, including Penlink.

By applying carefully planned and effective NATs, the timing of targeted updates is now in the users' hands. Because the system is utilizing G3Ts expertise in cellular technology via the Tetley Handy, users can rest assured all messaging and analysis is compliant with 3GPP's specifications of 2G/GSM, 3G/UMTS, 4G/LTE, and the rapidly advancing 5G New Radio (NR) standards. The included Tetley Handy phones may be utilized to perform advance network characterization on different MNO's simultaneously, and can support up to 4 attached Tetley Handy phones.

BANDS

5G

BAND 1- FDD IMT 2100 BAND 2- FDD PCS 1900 BAND 5- FDD CLR 1800 BAND 12 - FDD 700 BAND 25 - FDD EPCS1900 BAND 28 - FDD APT 700 BAND 41 - TDD BRS 2500 BAND 66 - FDD 17/2100 EAWS BAND 71 - FDD DD 600 BAND 77 - TDD C 3700 BAND 78 - TDD C 3500 SA/NSA/SUB6

LTE

BAND 1 - FDD IMT 2100 BAND 2 - FDD PCS 1900 BAND 3 - FDD DCS 1800 BAND 4 - FDD AWS1 1700 BAND 5 - FDD 850 BAND 7 - FDD IMT-E 2600 BAND 8 - ESGM 900 BAND 28 - FDD APT 700 BAND 40 - TDD S-BAND 2300

UMTS

BAND 1 - 2100 BAND 2 - 1900 BAND 5 - 850 BAND 8 - 900

GSM

BAND 2 - PCS 1900 BAND 3 - DCS 1800 BAND 5 - PCS 850 BAND 8 - EGSM 900

SIMs: 2						SC	Modems	: 2					20
	IMSI	Slot	# PI	honeNumber	Preferred	d Mode	102						
310410	193532068	13	172	275195737	Automatic		1			2			
310260-	424242476		157	712017564	Automatic		IMSI: Statu	jnment: : : is: :	ilot 13 104101935320 Network Registered Registered Hon	068 IM Sta	signment:	Slot 10 31026042424 Network Registered Registered He	
N/W Chai	racterization	Stimulatic	an Advan	ced N/W Cha	racterization		N/W:	: /	AT&T / LTE	N	W:	T-Mobile / LT	E
N/W Chai	racterization	Stimulatio	on Advan	iced N/W Cha	sracterization		N/W:	•	AT&T / LTE	N	W:		
			on Advan SSMI VOICE	nced N/W Cha WAP PUSH	aracterization SSMI FAX	MWIG VOICE	TYPE 0	MWIG OTHER	SSMI OTHER	CORRUPTE	W: SSMI EMAIL		E 0% Comple MWIG FAX
Stop	C [*] Export	✓ Done MWIG	SSMI	WAP		MWIG		MWIG	SSMI		SSMI	10	0% Comple MWIG
Stop rom -> To	C Export	✓ Done MWIG EMAIL	SSMI VOICE	WAP PUSH	SSMI FAX	MWIG VOICE	TYPE 0	MWIG OTHER	SSMI OTHER	CORRUPTED	SSMI EMAIL	10 NORMAL	0% Comple MWIG FAX
Stop rom -> To -> 13	C Export SYNC ML Delivered*	 Done MWIG EMAIL Success 	SSMI VOICE Delivered*	WAP PUSH Success	SSMI FAX Failed	MWIG VOICE Failed	TYPE 0 Failed	MWIG OTHER Failed	SSMI OTHER Failed	CORRUPTED	SSMI EMAIL Failed	10 NORMAL Failed	0% Comple MWIG FAX Failed

HYDRA Network Characterization Interface

hone Phone2-ATT 🕄	🗢 80% 🚮 🌣	Phone Phone3-TMB	• • 100% 🕬 🌣	Phone Phone1-VZN		
hone Serial:	1A181JEG503158	Phone Serial:	1A191JEG500697	Phone Serial:	1A191JEG501412	
MSI:	310280078013282	IMSI:	310260547618070	IMSI:	311480862297193	
	354292956435148	IMEI:	354292956442581	IMEI:	354292956432582	
hone Number:	7576631707		4433669682	Phone Number:	3012010807	
	AT&T		T-Mobile	Network Provider:	Verizon	
	Registered Home		Registered Home	Network Status:	Registered Home	
Preferred Mode:	LTE	Preferred Mode:		Preferred Mode:	Global	
perations Target	ts SMS Profiles	Reports Activity Logs	Data Management	Settings		
🔳 Stop 🛛 📥 Ex	Filter by Target:		*			Completed at 100%
		Attempted	Sent Ack Rec	eived Success	Failed Canceled	
Success Received	: : :		• •		• • •	
Success	• • •					

HYDRA NATs Stimulation Report

*Bands supported depend on the carrier and the model of the phones being used with the HYDRA

SPECIFICATIONS

Size	4.6"W x 4.4"L x 2"H
Weight	~3 lbs (including phones)
Power	Wide input DC supply range (10-28V) 19W nominal, 64W peak with 2 phones
	19W Hommal, 04W peak with 2 phones



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