

# Ramsey Cellular Forensics



**STP1100**



**STE3300F**



**STE2200F**



**STE3000F**

**When you need to *SECURELY* recover data from mobile devices...**



You need a safely isolated environment! Cellular phones and other wireless devices have quickly become one of the most important and valuable sources of investigative data. But that data has the high risk of being overwritten, deleted, locked-out, or corrupted unless the device is immediately RF shielded from the carrier's network, or even powered down. If a phone is "receiving service" it is vulnerable to remote access, remote data dumps, and remote lockdowns. If the phone is powered off, it is also vulnerable to auto lockdowns and authentication code changes for re-access.

Ramsey's patented Shielded Test Enclosures (STEs) can make this daunting task a breeze while keeping your budget in line. From simple RF isolated storage to a hands-on isolation chamber for telephone manipulation, our cost effective solutions will keep your evidence secure, and properly locked to preserve the chain of custody.

## **A mobile communications device is a valuable source of information... But a Delicate One!**

**And THIS potential evidence is at stake...**

- ✓ *Subscriber and equipment identifiers*
- ✓ *Date/time, language, and other settings*
- ✓ *Phonebook information*
- ✓ *Appointment calendar information*
- ✓ *Text messages*
- ✓ *Dialed, incoming, and missed call logs*
- ✓ *E-Mail*
- ✓ *Photos*
- ✓ *Audio and video recordings*
- ✓ *Multimedia messages*
- ✓ *Instant messaging and Web browsing activities*
- ✓ *Electronic documents*
- ✓ *Location information*
- ✓ *And a whole lot more!*



## **Maintain Power & Preserve Precious Data!**



If data on the device resides in battery dependent volatile memory, expiration of the battery can be disastrous! However, trying to preserve the battery by turning off the phone may activate or reset authentication codes (e.g., SIM PIN and/or handset security codes), which are then required to gain access to the device, complicating and delaying examination. Keeping the phone on, but isolated, hastens battery drain due to increased power consumption as it tries unsuccessfully to connect to the network, while automatically raising its transmitter signal strength to the maximum based on the loss of receive signal!

Ramsey offers test enclosures which feature a fully RF filtered multiple or single 12VDC mobile or 120/240VAC mains connections allowing the technician to maintain power to the device throughout the entire test and observation procedure, without the risk of catastrophic data loss or access lockdown.

## **Keep Data Secure, Prevent Unauthorized Access!**

All of our forensics-grade STEs feature a heavy-duty locking bracket to help maintain the integrity of data throughout the entire investigative process. Each enclosure can be secured and locked with standard padlocks to ensure secure transportation and storage of wireless devices. In addition, security rated hardware is utilized for all external hardware. This, along with the ability to lock and secure items inside the enclosure, means that maintaining the ever important "chain of custody" of your valuable evidence will not be compromised, nor will the device data secured within the forensics STE.



## STP1100 - Evidence Security for Every Officer On The Scene!



The STP1100 Shielded Transport Pouch is specifically designed to rapidly collect and secure wireless devices at the scene by law enforcement personnel. Cellular phones and other wireless devices have quickly become one of the most important and valuable sources of investigative data. But that data has the high risk of being overwritten, deleted, locked-out, or corrupted unless the device is immediately RF shielded from the carrier's network, or even powered down. If a phone is "receiving service" it is vulnerable to GPS tracking, remote access, remote data dumps, and remote lockdowns. If the phone is powered off, it is also vulnerable to auto lockdowns and authentication code changes for re-access.

The small size and low cost of the STP1100 puts rapid and secure collection of wireless devices in the hands of every officer in the field for transport to their lab for further investigation. The pouch is clearly printed "EVIDENCE!" on the front side and an evidence tag window and tags assure proper ID and chain of custody. Check out the STE3000F for a hands-on shielded environment to release and investigate the device.



The size of the pouch was designed to accommodate not only the typical cell phone, but the larger PDAs and mobile PC phones. It is even large enough to hold a few small standard cell phones! Performance wise, just like the highly efficient double lip RF seal on our STEs, the pouch features a double fold RF shield lock that assures complete RF isolation every time. Insert the phone, fold it once, fold it again, and it's secure.

Agency and quantity pricing is available as are replacement evidence tags (Part STPET1).

FEATURES	AVAILABLE OPTIONS	DIMENSIONS	COST
Flexible RF Shielding Double-fold RF tight lock Replacement evidence tags Accommodates the largest devices	Double woven construction Large "Evidence" identification Every officer needs one	STPET1 Evidence tags, packs of 10, 100, 1000	5 1/2" H x 10 1/2" W (open) 5 1/2" H x 8 1/4" W (sealed)
			\$49.00 (each) \$45.00 (2-9) Additional discounts up to 1000 pieces

## STE2200F - The Quick and Compact Lockdown Solution!

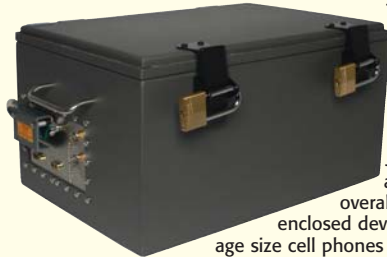


The STE2200F is designed specifically for securing and isolating cell phones and other small communications devices on-site for transport to your lab for evaluation. The moment the device is secured into the STE2200F it is isolated from the carrier's network and other RF signals preventing any incoming or outgoing communications, including GPS tracking information. An optional 12VDC filtered power input allows you to keep the device powered up using a standard vehicle power outlet. Filtered AC power interfaces are also available.

It is constructed to the same precision-machined tolerances as our larger models in order to maintain an exceptionally well shielded environment. Heavy duty, rugged .090 and .125 aluminum is used throughout, and our double lip, high performance gaskets are used at all joints assuring a reliable RF tight closure. Oversized hinges and latches provide a physically tight seal every time. RF absorbent foam lines the interior to provide a typical RF attenuation of -90dB @ 3GHz! Tamper-proof hardware and a padlockable latch is used to maintain security. Even with its small size, the STE2200F will hold approximately 21 average-sized cell phones for secure RF isolated transport and storage!

FEATURES	AVAILABLE OPTIONS	DIMENSIONS	COST
1/2" 24dB RF foam liner Double-lip RF tight gasket Easy release handle Steady-hold hinge	Tamper-proof hardware Padlockable latch Great for field collection	12VDC filtered power input & outlet 120VAC filtered power input & outlet 240VAC filtered power input & outlet RF filtered DB9/USB1.1 data port	4 1/2" H x 7 1/4" W x 9 3/4" D (Outside dimensions) 3 1/4" H x 6" W x 8 1/2" D (Nom. inside dimensions)
			\$495.00

## STE3300F - RF Tight Storage for Multiple Devices!



The STE3300F is the big brother to the STE2200F above. It is specifically designed to secure and power multiple cell phones and other communications devices, as well as larger PDAs and the latest and very popular "Wireless Micro PCs", such as the Sony Vaio® UX series. 120VAC filtered power inputs are standard, terminating in a 6 pole AC outlet strip inside the enclosure to plug in various chargers for the isolated devices. An RF filtered DB9/USB 1.1 bulkhead feedthru is also provided standard to give you data access to the wireless device under test or observation. Both interfaces are built into the standard Ramsey removable I/O panel giving you ample room for additional connectors and interfaces to meet your custom requirements, while maintaining non-custom stock delivery schedules.

Just like the STE2200F, heavy duty, rugged .090 and .125 aluminum is used throughout, and our double lip, high performance gaskets are used at all joints assuring a reliable RF tight closure. 1/2" RF absorbent foam lines the entire interior of the STE3300F providing an overall isolation greater than -90dB at 3GHz! Dual padlockable latches and tamper-proof hardware is used to maintain security of the enclosed devices. If you are looking for large secure and RF isolated storage for multiple cell phones, the STE3300F will hold approximately 60 average size cell phones in a secure RF isolated environment.

FEATURES	AVAILABLE OPTIONS	DIMENSIONS	COST
1/2" 24dB RF foam liner Double-lip RF tight gasket Easy release handles Steady-hold hinge Universal I/O panel	120VAC filtered outlet strip Tamper-proof hardware Dual padlockable latches Large storage space RF filtered DB9/USB1.1 data port	12VDC filtered power input & outlet 240VAC 6 pole filtered outlet strip RF filtered DB9/USB1.1 data port(s) RF filtered DB9/RJ45 data port(s) SMA, BNC, TNC, N-Type RF feedthru's Forced air cooling and venting options	9 3/4" H x 18" W x 12" D (Outside dimensions) 8 1/4" H x 16 3/4" W x 10 3/4" D (Nom. inside dimensions)
			\$1,095.00

## STE3000F - The Ultimate Compact Forensic Isolation Workspace!



The STE2200F preserved the wireless device at the scene, and got it to your lab. The STE3000F stored wireless devices in a powered-up secure environment. But when it's time to gather the hard evidence, the STE3000F is your key to successful recovery.

The patented design of our STE3000F gives you full hands-on manipulation and visual observation of the cell phone or wireless device, while keeping it powered up in complete RF isolation from the outside world! Our exclusive dual RF isolated gloves permit full two handed access to any device or accessory within the shielded test enclosure. From navigating through cell phone menus, screens and displays, to removing SIMS, SD cards, and other memory devices and plugging in USB and data transfer cables, you can do it all in full RF isolation from the network carrier. The entire work area inside the enclosure is illuminated for viewing through the large RF-tight viewing window. All of this can be done, while the device is still securely locked within the enclosure to preserve the chain of custody.

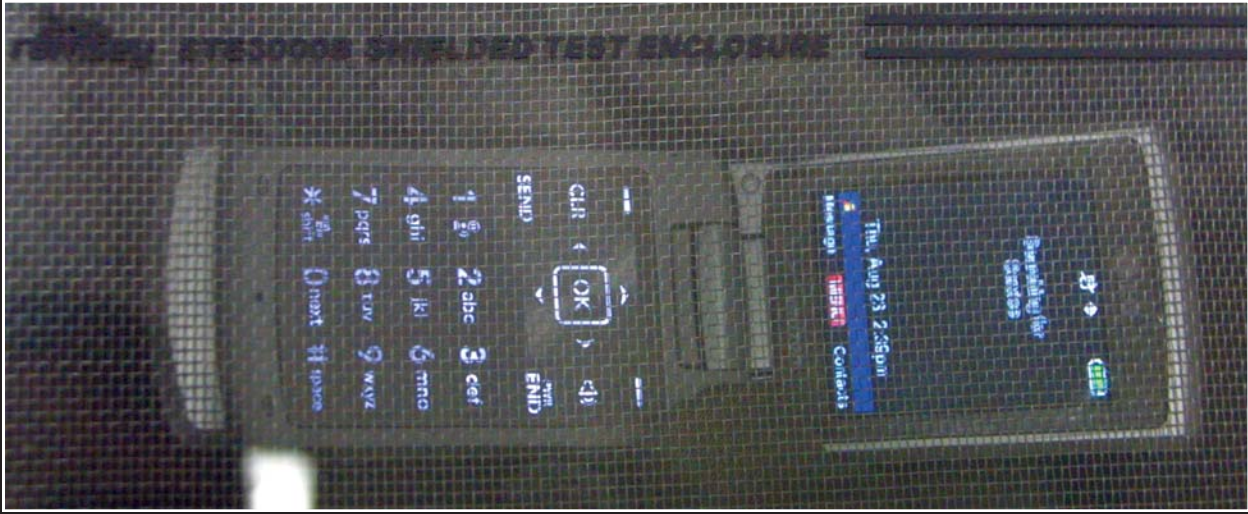
Just like the STE3300F, heavy duty double lip construction and high performance RF gaskets and absorbent foam is used to provide over -90dB isolation at 3GHz. Two standard RF filtered DB9/USB1.1 bulkhead feedthru's are provided for easy data connection to the wireless device, even while being isolated from the network carrier. Likewise, an RF filtered 6 pole 120VAC outlet strip is also standard to provide power to device chargers and power supplies. From the smallest cell phone to the latest "Micro PC" devices, the STE3000F will securely give you the hands-on advantage you need.

FEATURES	AVAILABLE OPTIONS	DIMENSIONS	COST
1/2" 24dB RF foam liner Double-lip RF tight gasket Easy release handles Gas filled cover strut Universal I/O panel Tamper-proof hardware Dual padlockable latches	RF tight silver mesh gloves RF tight viewing window Inside illumination 120VAC filtered outlet strip (2)RF filtered DB9/USB1.1 data ports High visibility white bottom	12VDC filtered power input & outlet 240VAC 6 pole filtered outlet strip Add'l RF filtered DB9 data port Fiber Optic high speed feedthru's SMA, BNC, TNC, N-Type RF feedthru's Forced air cooling and venting options	12 3/4" H x 18" W x 12" D (Outside dimensions) 8" H x 16 3/4" W x 10 1/2" D (Nom. inside dimensions)
			\$1,495.00

# Trust **YOUR** Evidence Preservation With Our Patented **RF Enclosures**

RF isolation is nothing new for Ramsey Electronics. In 1997 Ramsey took the technician out of the large expensive shielded screen room and put his hands and eyes into a portable "RF Benchtop Screenroom" with their patented STE series RF Shielded test enclosure. With thousands placed in service worldwide the patented STE technology became the standard for efficient and cost effective RF isolation testing for cell phones, pagers, PDA's, wireless LAN devices, and a host of other wireless devices that need to be isolated from the outside RF world.

That legacy has continued with a wide variety of STE's perfect for Forensic isolation. Our exclusive double lip gasket technology assures an RF tight seal each and every time. Steady-hold hinges maintain the opening at any location and prevent gasket compression due to prolonged closure pressure when not in use. All of our Forensics series STE's are pre-configured to make it easy to store, secure, and interrogate data of the wireless device. Each STE can be customized to fit your exact requirements with a wide variety of industry standard options, yet even with custom options, our STE's are normally shipped within 15 days!



If a phone is "receiving service" it is vulnerable to remote access, remote data dumps, and remote lockdowns. The large RF-tight viewing window in the STE3000F gives you a complete visual of the device while isolating it from the carrier's RF network. (Actual Verizon activated LG VX8700 inside an STE3000F unable to receive service)



Easy RF-tight hands on device manipulation inside the STE3000F showing the removal of a MicroSD storage card using the patented RF Shielded Gloves. Easily provides access to all device functions and displays.



If the suspect phone is powered down it is vulnerable to auto lockdowns and authentication code changes for re-access. Devices can be easily powered up and connected to USB data ports inside the STE3000F.



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