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"IrDA-Official" IrSimple[™] and IrSimpleShot[™] Test Suite ACT-IR9305(2nd-Generation) Vs. ACT-IR9005(1st-G) Comparison

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(2011/5/27Rev;2006/10/9v1)

No.	Feature Description	ACT-IR9305 (2nd-Generation Tester)	ACT-IR9005 (1st-Generation Tester)
1	Uni-mode Primary Test Cases (Timing Resolution)	Can receive successfully, Min. Packet interval time of 100 micro-second!	Can not receive consistently, Min. Packet interval time of less than 1 milli-second
2	Uni-mode Secondary Test Cases	Can maintain Minimum Packet interval time as per Spec.	Can not exactly maintain Minimum Packet interval time
3	Long Distance Extension (LDE) Test Cases (Primary & Seconndary)	Fully Implemented	Not Implemented
4	IrSimple Test Cases (TTL 271 in IrSimple Test Spec.), "Can Not Be Automatically and Accurately Tested"	"0" (All 271 Test Cases are OK! No timing resolution hardware limitation, known to ACT-IR9005)	"124" (62 for LDE, and 62 for Uni-mode that need "Manual" means to test)
5	Maximum Data Frame Size Allowed	32 Kbytes (IrSimple spec.)	2 Kbytes (IrDA Classic spec.)
6	Baud Rates Supported	SIR, FIR and VFIR	SIR, MIR and FIR
7	Test File Size Supported	Up to 20 Mbytes	Limited to 25 Kbytes
8	Configurable Negotiation Parameters	Allowed, Flexible! Very useful in protocol debugging!	Not Allowed
9	Timing Resolution Control	Better Control over Timing Parameters	Less Control over Timing Parameters
10	Customized Test File Selection	Allowed	Not Allowed
11	Facility to Record Raw Binary Data	Allowed	Not Allowed
12	Frame Timing Information	Can display Frame-wise timing details	Can not display Frame-wise timing information
13	Diagnostic Database	Expanded & Improved over ACT-IR9005 implementation	Implemented
14	Select Multiple Test Cases at A Time, when Set Up Test Style	Fully Flexible, in Test Sub-group, Group, or all 271 Test Cases	Only allowed within a Test Sub-group



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IrSimple[™] Protocol Debug and Test Suite, ACT-IR9305

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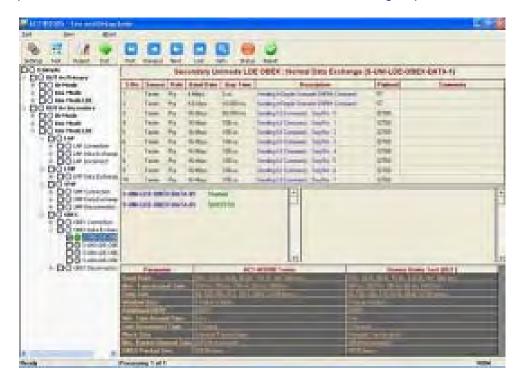
- 2nd-Generation IrSimple[™] Protocol Debug and Test Suite, ACT-IR9305 (consists of ACT-IR930xD+ACT-IR9305SW), after 1st-Generation Test Suite, ACT-IR9005.
- Supports **VFIR**, FIR and SIR through USB 2.0 port and Windows software.
- Implemented all IrSimple[™] Uni-mode, Bi-mode and LDE (Long Distance Extension),
 Primary and Secondary Test Cases.
- More flexibility and much finer **timing resolution** (1.085 μsec for SIR, 1 μsec for FIR/VFIR), to catch all frames, even if min. packet interval is 100 μsec or less. ACT-IR9005 was 1 msec.
- The only tester implemented All 271 IrSimple Test Cases, in the new IrSimple Test Spec-v1.10.
- User can configure multiple Negotiation Parameters as per their requirement.
- Customized File selection for DUT-as-Secondary Test Cases (supports **Text**, **JPG**, **MPEG**, etc.)
- The only Tester that supports up to **32KB** frame size.
- Facilitates testing and debugging of IrSimple LAP™, LMP™, SMP™ and OBEX™ Layers.
- Facility to record raw binary data, and it can be reviewed using ACTiSYS Probe Software (ACT-IR92xx).
- Promotes inter-operability of IrDA[®]-IrSimple Primary and Secondary devices.
- Test software and Debugger intelligence can be easily upgraded and expanded.
- Friendly and comprehensive multi-window GUI for easy viewing and operation.
- Support larger file size (Tested up to 20MB).
- Facilitates to test & debug several Test Cases of one Test Group by selecting SW once.
- Detailed information regarding test progress, test results and violations are displayed in different color, in separate windows, for each Test Case.
- Debugger module describes the reason for Test Failure in every IrSimple Test Case.
- User can customize Test Cases based on their IrSimple Primary/Secondary device features.
- User can run IR9305SW easily without knowing IrDA-IrSimple Test Specification in detail.
- Automatically generates Official IrSimple Test Report, per approved Test Report Templates.
 Also generates Summary Report, Frame History Report and Timing Reports.

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- ACT-IR9305 software supports Windows2000, XP, Vista and Windows7.
- Speeds up the IrDA[®] IrSimple™ Qualification of your IrSimple products.
- ACT-IR930xD is powered by USB port. Same ACT-IR930xD is used for all other ACTiSYS IrDA-IrSimple Protocol Test Suites, as below:
 ACT-IR9306SW (IrDA Protocol Primary and Secondary Debug and Test Suite).
 ACT-IR9307SW (IrDA OBEX Primary and Secondary Debug and Test Suite).
- You can easily buy one model and upgrade to other models by buying software only.
- You can easily run different IrDA Protocol Test Suites, by switching among Test Programs.
- Select (check mark) Test Cases, which after tested, change color (Green=Pass, Red=Fail).
- Select 'Report' option in Toolbar, which will allow to view the Test Result in HTML View.

Sample Screen Shots

Fig.1: Expandable tree of all 271 Test Cases. Check mark one or group of Test Cases to test.



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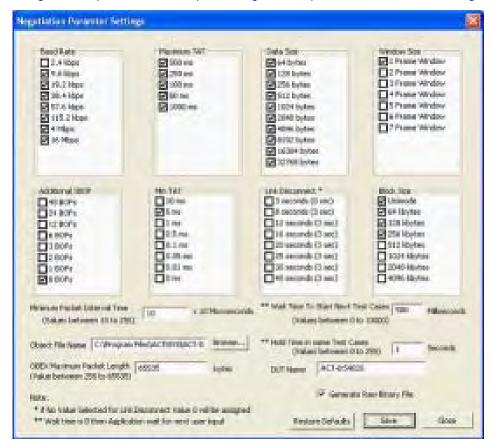
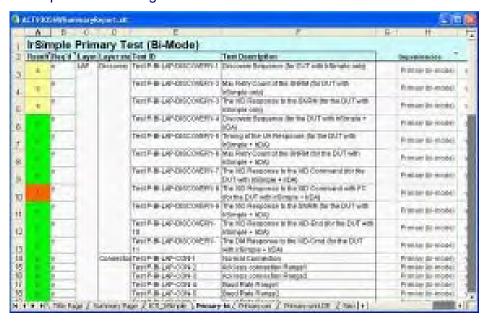


Fig.2: Multiple IrDA[®]-IrSimple™ negotiation parameters can be configured.

Fig.3: Automatically generates Test Report as per Official IrSimple™ Test Report Template after completion of testing.



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