Advanced Infrared Analyser & Decoder

Features

ANALYSIR, the Advanced Infrared Analyser & Decoder includes:

- Dual channel display
- Multi-protocol import & export
- Load & Save sessions
- Signal Analytics
- Unique signal Auto-clean
- Automatic Decoding of 100+ Infrared protocols
- IR Signal checksum calculator
- Automatically generated 'C' code for signal transmission. (using IRremote or IRLib)
- Screenshots
- Multiple Infrared recording sources supported
- Firmware included for all supported Infrared sources
- Carrier frequency
- Comprehensive User Guide and setup instructions

Benefits

- Low Cost
- Best of Breed solution
- Passionate Support
- Rapid decoding & reverse engineering of unknown IR protocols
- Outperforms Oscilloscopes and Logic Analysers for CIR
- Converts between common industry formats:
  - o LEARNIR / LIR
  - o Pronto
  - o Global Cache
  - o Command Fusion
  - o IRremote, IRLib
  - o LIRC RAW, USB IR Toy etc.

ANALYSIR Overview

ANALYSIR is the leading tool available for analysing, decoding and reverse engineering Infrared remote control protocols.

ANALYSIR allows makers, hobbyists and professionals analyse, decode and reverse engineer infrared remote control protocols. We believe it to be the most feature rich IR analyser & decoder available today. It's so good you can decode or troubleshoot new or unknown Infrared signals in a fraction of the time before ANALYSIR. No need for expensive Logic Analysers or Oscilloscopes. An essential tool for your Lab/bench.
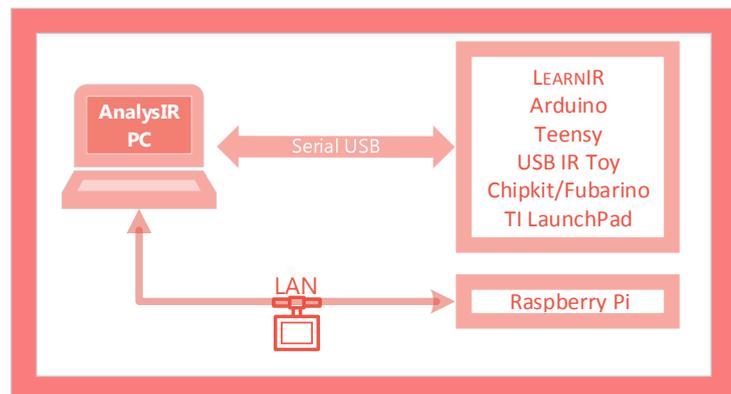

What is ANALYSIR

ANALYSIR is made up of 3 components:

- The ANALYSIR Windows PC application.
- An Arduino (or other MCU type platform such as LEARNIR, A.IR Shield, Photon, ESP8266 NodeMCU, iTach, Teensy, USB IR Toy, MSP, AVR etc.) with an inbuilt serial over USB, connected to the PC. The Raspberry Pi is also supported via LAN or Wi-Fi. *(None of these items are included)*
- A 3-pin Infrared receiver and optional IR Learner which each use one digital input pin and work off 5V or 3.3V power supply and GND. *(Receiver & Learner are not included, See User Guide for more details.)*

What's Included

A copy of ANALYSIR software, via download, complete with registration key is provided with each purchase. You need to provide your own Windows PC & MCU from the list on the right. You will also require an infrared receiver and optionally an IR Learner. *(Recommended IR Receiver: TSSP4038, TSSP58038 or TSOP34438; and the optional IR Learner: TSMP58000). Of course, you can use your existing IR receiver. LEARNIR and USB IR Toy do not require any additional IR components or configurations.*
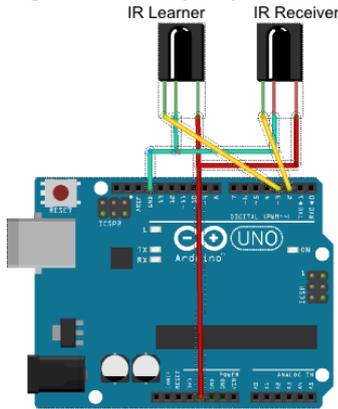
We also provide the source for the firmware sketch which needs to be loaded onto the MCU. (Arduino, Teensy, Energia, MPIDE, Creator IDEs) and the source code for the RPi. The latest versions of LEARNIR, A.IR Shield Nano, A.IR Shield Photon, A.IR Shield Rx and USB IR Toy work out of the box without additional firmware or IR components. An example wiring diagram for the Arduino is shown above, with detailed setup instructions and examples for all platforms available in the user guide.

Licensing Model & Purchase

ANALYSIR is available under 2 licences for non-commercial or commercial use. If you plan to use your copy for any commercial purpose, select the commercial 'Pro' edition. Alternatively, if you are a maker or hobbyist select the non-commercial 'Maker edition'. Special pricing for 'education', makerspaces and bulk purchases is also available. Each copy of ANALYSIR is linked to one PC and email address. You can purchase your own copy via:

https://www.ANALYSIR.com/blog/get-analysir/

Service and Support

Support is provided for ANALYSIR via email and our on-line IRforum. Contact details for support are contained in the user guide. Support is available only using your registered email address.

Major and minor version upgrades to the firmware and Windows application are made available at no additional charge as part of the initial purchase price, for a minimum of 2 years.

A MAKEIR Kit

ANALYSIR is part of the MAKEIR series which comprises a range of innovative infrared remote control kits for makers, hobbyists and professionals.
(For launch in Q3 2016 – visit www.ANALYSIR.com for details)

LearnIR is an advanced IR Learner device designed by AnalysIR which will be released as part of the MakeIR kit series launch.

13-Jul-16

Minimum Requirements

- Windows PC with latest updates and .Net
- Infrared source *(one of)*
  - LEARNIR, A.IR Shield
  - Arduino 16MHz
  - ESP8266 NodeMCU
  - Teensy 3.x / PSOC4
  - USB IR Toy V1 & V2
  - ChipKit/Fubarino
  - MSP430 LaunchPad (beta)
  - Raspberry Pi, Photon, iTach
- IR receiver *(any)*
- IR learner *(TSMP58000 - optional)*
- Optimised for 1366x768 display resolution and greater.

Supported IR Protocols

Currently there are over 100 protocols fully supported with more to be added over time: AMICO34AC ASHQ24_312TAG, CANON33CAM, CANVAC96AC CHIGO96AC CHUNLAN96AC DAEWOO DAIKIN160AC DAIKIN280AC DAIKIN64AC DENON DIRECTV DISH DISNEY ELECTRA34AC ELECTROLUX112AC ELECTROLUX134AC ELECTROLUX96_192AC FRAGTAG FUJITSU128_56AC FUJITSU88DUALAC GI16STB GREE35_67AC GWTS HAIER112AC HAIER144AC HELI36IGNITE HELISH3CH HITACHI104AC HITACHI184_264_296AC ICOMBAT IROBOTROOMBA JAPANESE JVC KOMECO112_128AC KONICAMINOLTA32CAM KONKA LASKO12AC LG28AC LG28AC2 LG28BAC LGARTCOOLGALLERY140AC MAGNA10 MATSUSHITA MC144105 MICROSOFTRC6 MILESTAG MILESTAG1 MITSUBISHI MITSUBISHI288AC MITSUBISHI88AC MITSUBISHI8TV MOTOROLA NAGAKAWA96AC NEC NEC2 NIKON4CAM NORTHSTAR112AC OGAC104 OLIMPIA136AC PANASONIC PANASONIC128_216_280AC PANASONIC128AC PENTAX6CAM PHILLIPS PIONEER PIONEER32 PROTECNO48AC RC5 RC6 RCA RCMM RECS80 ROGERS SAMSUNG SAMSUNG112_168AC SAMSUNG2 SANYO SANYO152AC SCIENTIFICATLANTA SERIAL2400BAUD SERVODAN16DET SEVILLEFAN64AC SHARP SHARP104AC SONY SUMIKURA120AC TCL112AC TOSHIBA TOSHIBA_80_96_144_160AC TOSHIBA96AC TRANE64AC VESTEL168_112_56AC, XMP XSAT YORK140AC YORK64AC

Import/Export formats

LEARNIR, Pronto, Global Cache, Command Fusion, IRremote, IRLib, LIRC RAW, Saleae Logic CSV, USB IR Toy '.bin' file, IRScope ICT, UEI.

About ANALYSIR

ANALYSIR is committed to providing leading edge Infrared solutions & technology to our Maker, hobbyist, Edu and Professional users globally.

www.ANALYSIR.com